

<110> Rosen et al.

<120> 90 Human Secreted Proteins

<130> PZ013P1

<140> Unassigned

<141> 1999-02-04

<150> PCT/US98/16235

<151> 1998-08-04

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<151> 1997-08-05

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 <213> Homo sapiens

<400> 18

cccacccggg	gagggtcgtt	gtgcgcctgc	ccagggtggg	ggttgccgtc	gcgcctaggg	60
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tcagcgctga	gattgtctaa	agccccagga	aaaatgggtg	aaaattcacc	gtcgccattg	180
ccagaaaagag	cgatttatgg	ctttgttctt	ttcttaagct	cccaatttgg	cttcatactt	240
tacctcgtgt	gggcctttat	tcctgaatct	tggctaaaact	cttttaggtt	aacctattgg	300
cctcaaaaat	attgggcagt	tgcattacct	gtctacctcc	ttattgctat	agtaattggc	360
tacgtgctct	tgtttgggat	taacatgatg	agtacctctc	cactcgactc	catccataca	420
atcacagata	actatgcaaa	aatcaacag	cagaagaaat	accaagagga	ggccattcca	480
gccttaagag	atatttctat	tagtgaagta	aaccaaatgt	tctttcttgc	agccaaagaa	540
ctttacacca	aaaactgaac	tgtgtgtaac	catagtaaca	ccaagcacgt	atttatttat	600
aagtttttgc	cattataatt	ttgaccataa	attaatttga	ccatctctct	tattaataga	660
gaagtataaaa	atgtaagttg	accttctctt	agattatgtt	caatgaatat	tgtaaatgtt	720
caagtattgt	taatgaatag	aataaataca	atattgcatt	ccccaaaaaa	aaaaaaaaaa	780
actcga						786

<210> 19  
 <211> 510  
 <212> DNA  
 <213> Homo sapiens



<220>  
 <221> SITE  
 <222> (2)  
 <223> n equals a,t,g, or c

<400> 19  
 gnacccccgg gctgcaggaa ttcgggcmcga gaaatgaggc ttcagcctga catctgtaac 60  
 ctccccacca accctctgag tctgaagtgg ggcttgatgc tgttatcact gaccctttgt 120  
 ttggagaaaa cagtccaagg tttgaaattg ggtctatgtt tattcaaact aagctttctct 180  
 gaggacatgg tctgtcccac tcatcctcag agtatccgtt ggttttactt catgttcaga 240  
 ctgcagtgtt gttaaagaaa taaagctaca gtgttttcag aaggatttgg tatattatac 300  
 ttcatgttcc cactgctcca ggctaagcgt ctctctcggg ctccattgtt taatgcagga 360  
 caaagccagg ttttctggca gcttcctttt catagcaatt ctccagtagag gtatagaatg 420  
 agacctgcct accttcttgg gtgtttatta ccccatgtt ggattttact ttaacttctg 480  
 ttaccttaaa aaaaaaaaaa aaaaactcga 510

<210> 20  
 <211> 750  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (749)  
 <223> n equals a,t,g, or c

<400> 20  
 gagctgcctg atggaaagaa gagaagaaag gtccctggcgc tccccacaca ccgaggcccc 60  
 aaaatcaggt tgcgggacaa aggcaaagtg aagcccgtcc atccccaaaa gccaaagcca 120  
 cagataaacc agtggaagca ggagaagcag caattatcgt ccgagcaggt atctaggaaa 180  
 aaagctaagg gaaataagac ggaaacccgc ttcaaccagc tggtcgaaca atataagcag 240  
 aaattattgg gaccttctaa aggagcacct cttgcaaaga ggagcaaagt gtttgatagt 300  
 tgatgatggc agcaggctgg gtaagaagct gggttgtgta ctttctgggtg acactcctgg 360  
 gctcctcccc atccccctg tctctcactg agggaaagaa aatccccaag ggcactgcca 420  
 ctgtgctcgg aggtgccttg gactgtgtac atctgaactt tgggtccatcc tttgatgtgt 480  
 ggttcggttag ccacaaagag aaatatctga aagtcaacat gatgcttctt gcatattatc 540  
 cagattattg tatgaagtgg tgtctataat tattaccaat ttttattctt tatttctcaa 600  
 atggaaacac ctgaaaaagc attctggagt gctgaatttt taagatgtat attttgtaa 660  
 gcatattctc taaatgagat attgtgtggc tttttagtaa caacgtcatt tctaataaaa 720  
 aaaaaaaaaa aaaaagaaaa gaaaaaana 750

<210> 21  
 <211> 838  
 <212> DNA  
 <213> Homo sapiens

<400> 21  
 gaattcggca cgaggagcca ctgcggtctgg ccaagatgct ttatattctt ttaaaaccat 60  
 tgttgtgtct atctgttaac tgcacaaata tttaccaaag gcttaccag agccaaggac 120  
 tagacttggc actgggtaga aactagtaag gcatggctct tcttctacat agaattcttag 180  
 catttttagag atgagttccc agacatggtc cagaaggtca cagttcacac cattaggcaa 240  
 ggcagtatct gaaataaaaag tcatgtctaa tactaaatcc agtatgttct ctccctcagg 300  
 attttactct cattgctgcc ccttggtttg ctatgctctt cccagacag ctgcacagct 360  
 catttaattt agatctcatt taatttagat ctctcaatta atttagatct ctgttaaaaa 420  
 aaaaaaaaag ccctaggcag caaggtctaa catatcatcc tcaaattaaa gagaaagccc 480  
 tttggtgtta tttttcttta tagcacttac caactcccag tagaatgtaa actccagtag 540

ggcacatatc	tttgccctctt	ttatcttactg	ctctattccc	agcaccagaa	cagtccttgc	600
cacaaagtag	gtgctcaata	aacatttggg	gaatgaatta	acctagtgtt	ctttttacct	660
acacatgcac	acacagagcc	atgacactcc	tgccgaggaa	gctcgcggct	ctaagaggga	720
cattaaagaa	aagccaattc	agtgcctgcc	aaagagtaga	acatgttttg	acagcaggat	780
cagcttgggt	ggtggaccaa	caatgggttg	cagaccaaga	aaaaaaaaa	aaactcga	838

<210> 22  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (138)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (460)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (473)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1048)  
 <223> n equals a,t,g, or c

<400> 22						
acaccaatgg	agacataatt	gtgggcagac	tatgacaacc	gttgggtcag	catcttctcc	60
cctgaggggc	aagttcaaga	ccaagattgg	agctgggccg	cctcatgggc	cccaagggag	120
tggccgtaga	ccggaatnga	catatcattg	tggtcgacaa	caagtcttgc	tgcgctctta	180
ccttccagcc	caatggcaaa	ctgggtggcc	gttttggggg	ccgtggggcc	actgaccgcc	240
actttgcagg	gccccatttt	gtggctgtga	acaacaagaa	tgaaattgta	gtaacggact	300
tccataacca	ttcagtgaag	gtgtacagtg	ccgatggaga	gttcctcttc	aagtttggct	360
cccattggcg	gggcaatggg	cagttcaatg	ccccacaggg	agtagctgtg	gactccaatg	420
gaaacatcat	tgtggctgac	tggggcaaca	gccgcatccn	aggatttcga	cancctctggc	480
tccttccctg	cctatatcaa	cacatctgca	gaaccactgt	atggtccaca	gggcctggca	540
ctgacctcgg	atggccatgt	ggtgggtggc	gatgctggca	accactgctt	taaagcctat	600
cgctacctcc	agtagctgta	cagaggccct	gcctggcttg	tggagggaca	gacattgggg	660
tgattggaca	agagggtctg	gctgggaggt	gggccagacc	tggcagcact	gaatgtgggc	720
tgtgggcatg	ggtgcacccg	gtgccctccc	tctcctaccc	ccacccccac	ggttgcactt	780
tattttattcg	gttcttgctt	tggtgactgg	gtgagcctgg	actgtggtcc	caaggatgtg	840
tgcagagctt	caccctaccc	ttcttacaca	cctccccacc	cctgtcagtc	tgctccccat	900
cccccagcct	ggggccagaa	cagcctaccc	caggacagga	gtccctctag	ttgtctccct	960
accaccctat	acacactgac	agagacagca	atacccccacc	ccccatatta	aataaatgtc	1020
ttcaccaaga	aaaaaaaaa	aaaaaaanac	tcgcggcagc	a		1061

<210> 23  
 <211> 884  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (307)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (356)  
 <223> n equals a,t,g, or c

<400> 23  
 tcgaccacag cgtccgcccg atggttgcca cccctcctgc tgtaggatgg aagcagccat 60  
 ggagtgggag ggaggcgcaa taagacaccc ctccacagag cttggcatca tgggaagctg 120  
 gttctacctc ttcttggtct ctttgtttta aggcctggct gggagccttc cttttgggtg 180  
 tctttctctt ctccaaccaa cagaaaagac tgctcttcaa agtggagggt cttcatgaaa 240  
 cacagctgcc aggagcccag gcacaggctg ggggcctgga aaaaggaggg cacacaggag 300  
 gagggangga gctggtaggg gagatgctgg gctttacctt agtctcgaaa caaggnggca 360  
 gaataggcag aggcctctcc gttccaggcc catttttgac aratggcggg acggaatgc 420  
 aatagaccag cctgcaaraa aracatgtgt tttgatgaca ggcagtgtgg cggggtggaa 480  
 caagcacagg ccttggaatc ccaatggact gaatcagaac cctaggcctg ccattctgtca 540  
 gccgggtgac ctgggtcaat tttagcctct aaaagcctca gtctccttat ctgcaaaatg 600  
 aggcctgtga tacctgtttt gaagggttgc tgagaaaatt aaagataagg gtatccaaaa 660  
 tagtctacgg ccataccacc ctgaacgtgc ctaatctcgt aagctaagca gggtcaggcc 720  
 tggttagtac ctggatgggg agagtatgga aaacatacct gccgcagtt ggagtgtggac 780  
 tctgtcttaa cagtagcgtg gcacacagaa ggcactcagt aaatacctgt tgaataaatg 840  
 aagtagcgat ttggtgtgaa aaaaaaaaaa aaaaaaaaaa aaac 884

<210> 24  
 <211> 711  
 <212> DNA  
 <213> Homo sapiens

<400> 24  
 atagggcgat tgggtacggg cccccctcgt agtttttttt tttttttttt ttttagagaca 60  
 gagtcttgct ctgtcaccta ggctggagta cagtggcgtg atcatagctc actgtaacct 120  
 tgaactcctg ggcttgagca accctcctgg cacaatctcc ttgaatgatg ggtcccaaga 180  
 gccagacaga acggacttcc tcccttatgc ctcatcaagt tagagagaga agagctcaca 240  
 tccccaaaat gcctatgaac acataactct actgattcct gacctgacct gccttggcct 300  
 caagaggggc aaatgctcaa ttccttgagt tcaaactctt ttccctgtat tttctcacct 360  
 gtgggggtcca cctctgtccc tctgactcac agaattgtgac tgcccccttc cttcttatga 420  
 tagtcttcca gaggtctgaa gacagaaagc atatcttctt tgagtcttct ctaagttgaa 480  
 tactcccaat caccacaaac agagttagtc agtgcaggaa aagtatagtt ttgtgatcag 540  
 agttgtatcc aaaattccat atcacaactt actaactaca tgacctagag tatgttcttt 600  
 cacctcacag aggcaggagc attgtgagga ttaaagcgcc tagccaggaa taggcatag 660  
 tatgtgctca ataaatgata cttctcaaga taacaatctc gtgccgaatt c 711

<210> 25  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (10)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (48)  
 <223> n equals a,t,g, or c

<400> 25

ctcgaantan	ccccactaag	ggaacaaagc	tggagctcca	cgcggtgncg	gccgctctar	60
aactagtggg	tccccggggc	tgcaggaatt	cggcacgagc	ttttccaaaa	tggctgtact	120
aattttacatt	cccaccaaca	atgttcaagg	atttcatatt	cttgacattc	ttacccaaat	180
tgtcacagtt	tgtaaaagg	agtctaataa	gtggcctaag	tgaatgtgac	aacacttcat	240
tgaaagcaat	cttaggtttt	tccaactata	gtcaataata	acttaattgt	acattctaaa	300
ataactcaaa	gagtgttaatt	ggattgcttg	taacttaaa	gataaatgct	tgaggggatg	360
gatgcctcat	tctccatgat	gtgcttattt	cacattgcat	gcctgtatca	aaacattaca	420
tttatcccat	aataacacac	cttactatgt	acccccaaaa	aataaacatt	aaaattaagt	480
tttcaaaaaa	aaaaaaaaaa	aactcga				507

<210> 26  
 <211> 2232  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (715)  
 <223> n equals a,t,g, or c

<400> 26

ctcccaggcc	cgcgaaacttg	gccattcagc	cgccgctgtc	cccgcctgcgc	gccctcgcgc	60
ctctgcctga	raagccaggc	gctgttcccc	caccccagaa	gaggatggca	aagggtggcta	120
aggacctcaa	cccaggagtt	aaaaagatgt	ccctggggcca	gctgcagtca	gcaagagggtg	180
tggcatgttt	gggatgcaag	gggacgtgtt	cgggcttcga	gccacattca	tggaggaaaa	240
tatgcaagtc	ttgcaaatgc	agccaagagg	accactgcct	aacatctgac	ctagaagacg	300
atcggaataa	tggccgcttg	ctgatggact	ccaagtattc	caccctcact	gctcgggtga	360
aaggcgggga	cggcattccg	atttacaaga	ggaaccggat	gatcatgacc	aaccctattg	420
ctactgggaa	agatcccact	tttgacacca	tcacctacga	gtgggctccc	cctggagtca	480
cccagaaaact	gggactgcag	tacatggagc	tcattcccaa	ggagaagcag	ccagtgcacg	540
gcacagaggg	tgctttttacc	gccgccgcca	gctcatgcac	cagctcccca	tctatgacca	600
ggatccctcg	cgctgccgtg	gactttttgga	gaatgagttg	aaactgatgg	aagaatttgt	660
caagcaatat	aagagcgagg	ccctcggcgt	gggagaagtg	gccctcccgg	ggcanggggtg	720
gcttgccaag	gaggagggga	agcagcagga	aaagccagag	ggggcagaga	ccaytgctgy	780
taccaccaac	ggcakttytca	gtgacccgtc	caaagaagaa	gcgtgctagc	cagtcccact	840
cgtgtgataa	cccattaatc	tattaaagcca	taagtggatt	aatccattcc	tgaggacctg	900
agccctcacg	acccaatcat	ctcttaaagg	ccccacctct	caatactgcc	atgcagagga	960
ttatgtttca	acctgagtg	ttggagggga	tgttcaaccc	ataggaagtg	gcagtgtgga	1020
agaagtgtct	ctgaggagt	agtcactggg	ggccattttg	agaaaacaga	aaggagaagc	1080
cagagtgtgg	gagatgaaag	cctcatggct	tggtttgtct	taaactgccc	cacagaaggc	1140
gaaaggaatg	cttgaggctg	gaccacgtgg	gtctagcgtg	tactgcgttt	ctgggtcccca	1200
gcccctgttt	taccttttgc	tcctcctgcc	ccatcaacca	agtgctcttca	tttgtttcta	1260
tggcaattaa	cttttggaga	tagaagtcct	agcacacgag	atccccaagc	acattatcta	1320
ccttgctgaa	caggctggca	gtcacacatg	agccaggcga	cccagggaaa	tgccagccca	1380
aacgaagctg	ctgccacatc	cagagagggc	cggactcttt	ctcccttgta	gtcactcaag	1440
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<210> 27
<211> 640
<212> DNA
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (4)  
<223> n equals a,t,g, or c
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<220>  
<221> SITE  
<222> (17)  
<223> n equals a,t,g, or c
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aggtagat	acctcattgt	gtatatataatg	tttaatat	gtcagagcat	tctccagggt			180
tgtagatttta	tttctataaa	gtatgggtat	tatgttgctc	agttactcaa	atgggtactgt			240
attgtttata	tttgtacccc	aaataacatc	gtctgtactt	tctgttttct	gtattgtatt			300
tgtgcaggat	tctttaggct	ttatcagtgt	aatctctgcc	ttttaagata	tgtacagaaa			360
atgtccatat	aaatttccat	tgaagtcgaa	tgatactgag	aagcctgtaa	agaggagaaa			420
aaaaacataag	ctgtgtttcc	ccataagttt	ttttaaat	tatatgtgat	ttgtagtaat			480
atttccccaaag	aatgtaataa	ggaaatagaa	gagtgatgct	tatgttaa	cctaacacta			540
cagtagaaga	atggaagcag	tgcacaataaaa	ttacattttt	cccaaaaaaa	aaaaaaaaaa			600
aaaaaaagggc	ggcgctctta	gaggatccct	cgaggggccc					640

<210> 28  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (407)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (408)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (409)  
 <223> n equals a,t,g, or c

<400> 28  
 gaattcggca cgagtgcagc ttcattttgg gctgccttag ccatgaagct ccttttgctg 60  
 acttttgactg tgctgctgct cttatcccag ctgactccag gtggcaccca aagatgctgg 120  
 aatcttttatg gcaaatgccg ttacagatgc tccaagaagg aaagagtcta tgtttactgc 180  
 ataaataata aaatgtgctg cgtgaagccc aagtaccagc caaaagaaag gtgggtggcca 240  
 ttttaactgc tttgaagcct gaagccatga aaatgcagat gaagctccca gtggattccc 300  
 acactccatc aataaacacc tctggctgaa aaaaaaaaaa aaaaaaaaaa araaaaaaaa 360  
 aagaaaaaaaa actcaagggg gggcccggta cccattcgcc ctatgtnnnt cgt 413

<210> 29  
 <211> 1122  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (948)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1107)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1116)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE

<222> (1121)

<223> n equals a,t,g, or c

<400> 29

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aactttcccc	gctctccccg	catccggaag	cgctttctgc	tgcgacggat	ccttgagatg	120
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aactccatga	agcccttcaa	ggacatggac	tactcacgca	tcacgagcg	cctcctgaag	240
ctggcggtcc	ccaatcacct	catctggctc	atcttcttct	actggctctt	ccactcctgc	300
ctgaatgccg	tggctgagct	catgcagttt	ggagaccggg	agttctaccg	ggactgggtg	360
aactccgagt	ctgtcaccta	cttctggcag	aactggaaca	tccttggtga	caagtgggtg	420
atcaggtagg	tggggtgtgt	gtgtgtgtga	tgtggaacat	ggctgtgaac	ctgaaccgct	480
ttccatgccc	cctcctctgc	agacacttct	acaagcccat	gcttcgacgg	ggcagcagca	540
agtggatggc	caggacaggg	gtgttcctgg	cctcggcctt	cttcacagag	tacctgggtg	600
gcgtccctct	gcgaatgttc	cgcctctggg	ckttcacggg	catgatggct	cagatcccac	660
tggcctggtt	cgtgggccc	tttttccagg	gcaactatgg	caacgcagct	gtgtggctgt	720
cgctcatcat	cggacagcca	atagccgtcc	tcattgtacg	ccacgactac	tacgtgctca	780
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ctggctgcac	agcatectcc	tctgggtcca	gggaggcctc	tctgccccta	tggggctctg	960
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cttgctgacc	ctgcccggg	tccgagggtg	tcaataaagt	gctgtccagt	gaaaaaaaaa	1080
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<210> 30

<211> 778

<212> DNA

<213> Homo sapiens

<400> 30

ggttctcttg	ccaagaggag	caatttttct	gccatcagca	aaaagctgaa	tttgatccca	60
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gcttatgtgc	ccctgagctg	ccgaatcatt	gagcaggtgc	tagagcggcg	astggcaggg	180
ccttgatgag	gtggtacggc	tgctcaactg	magtgacttt	gcattcacag	atatgactaa	240
ggaagacaag	gcttccagtg	agtccctgcg	cctcatcttg	gtggtgttct	tgggtggttg	300
tacattctct	gagatctcag	ccctccggtt	cctgggcaga	gagaaaggct	acaggttcat	360
tttctgacg	acagcagtca	caaacagcgc	tcgccttatg	gaggccatga	gtgaggtgaa	420
agcctgatgt	ttttcccggc	cagtgttgac	atcttccctg	aacacattcc	tcagtgagat	480
gcaggcatct	ggcaccacgc	tgctataacc	aagtgtccac	caactacctg	ctaagagccg	540
ggagcatgga	acgtgttggg	atcttagagaa	cattatctga	gaaaagagtt	cacttcctgc	600
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ggaagaggca	tccttttgcta	aatcctgttt	gaatgtcatt	gtaaataaag	cctctgctct	720
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<210> 31

<211> 2476

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (853)

<223> n equals a,t,g, or c

<220>

<221> SITE

&lt;222&gt; (2227)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 31

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aaaaaaaaaa	actcga					2476

&lt;210&gt; 32

&lt;211&gt; 691

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 32

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ttgaatattg	tcctaattcta	ttttatattt	gaacatattt	tgttgatttc	tgctaataga	240



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&lt;210&gt; 33

&lt;211&gt; 700

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 33

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&lt;210&gt; 34

&lt;211&gt; 1722

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (413)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 34

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&lt;210&gt; 35

&lt;211&gt; 878

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 35

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&lt;210&gt; 36

&lt;211&gt; 954

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 36

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caatcagccc	aacccagccc	agactgggct	tttctgggga	gctgaggagt	ttatcagtat	540
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&lt;210&gt; 37

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 37

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aaaaaaaaaa	aaa					793

&lt;210&gt; 38

&lt;211&gt; 559

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 38

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559

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<210> 39
<211> 1263
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (1091)
<223> n equals a,t,g, or c

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atttttaatt gcatgcaaaa cctagttacc ataaaaacca atgcaatacc aaaatatctc 180
agcttcctag catagactcc aggtcttttc atttccaata cttggcagtc ataatatgta 240
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gtt
1263

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<210> 40
<211> 455
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

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attggcagga gattatccag aacatctagg tgcaggtaaa cagttctaag tccaagaagt 120

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<210> 41  
 <211> 1128  
 <212> DNA  
 <213> Homo sapiens

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gaagatgttg	aaattagttt	tagacaaaag	tgggtccatca	attcagacac	tctgcttgga	660
tgcccttacc	ttttcattag	tgcatctttt	gcttctgaaa	cttggcagaa	actcgttagc	720
cagtcacttg	cctttctgac	aatgtgtgga	gtcacgtatg	cttgggtatat	gcctttacta	780
cttttaaaagt	tctacagttt	attacttgcc	caagtgttac	taaatccttt	tcttatgtgt	840
actggatgga	gaaaaaatta	tagccagcac	tttgagagga	aagttttcag	aaacaatatt	900
aactggcact	actaactgaa	ggccacagga	gatgctatca	atgttatttg	taatctgaag	960
attgaacaag	gctgtgaggg	tcattttcaa	ctattttgag	gtgttaaaat	atatatatgc	1020
tgttttctcag	ctgttccact	caaaccgtgt	taggactctc	aaaggtaaaa	tgtcacaggg	1080
gctttttcagt	tgttacagag	ctcagcagct	gtggttgccc	ctgttctaca	ccaatttcag	1128
ttcaataaaaa	atgttaactt	tgcaaaaaaa	aaaaaaaaaa	gggcggcc		

<210> 42  
 <211> 648  
 <212> DNA  
 <213> Homo sapiens

<400> 42						60
gaattcggca	cgaggcaata	tttgccctcac	ccaacaccac	aaagattttc	ttctgttttc	120
ttctagaact	tttttagttt	taggggtttat	atttaggtct	gtgatccatt	ttgaatcaat	180
attagcatat	gaggcaaagt	ggagatcgaa	gttttttatt	ttccttatga	ataccagtt	240
gttccaacac	cacttattaa	aaacactata	ctttatccac	tgagtttggt	ttgtaccttc	300
atcaaaaacc	agttttcaat	atatctgtgg	attaaatttt	ttatttttat	gtttattttt	360
agagacggtc	tcactatggt	ttccaggctg	gtctcaaaact	cttgctctca	agtgatcttc	420
ccatcttggc	ctcctgagtc	gctgggagga	tcaggcagga	ggattttctg	agcctgggag	480
gttgaggctg	cagtgaagcg	agattgctcc	actgcacttc	agcccgggca	atagagttag	540
atcctatctc	aaagaaaaaa	agagttattg	tgttatatct	tttttaatcc	attttctttt	600
aaccctttat	atccttatat	ttaaactaga	gtttctgtca	agtgcactcc	agcctgggtga	648
caaagcaaga	ctccgcctca	aacacaaaaa	aaaaaaaaaa	aaactcga		

<210> 43  
 <211> 736  
 <212> DNA  
 <213> Homo sapiens

<400> 43  
 tctgagttttt tttttttttt tttttgagac tgaatttcac tcttggtgcc caggctggag 60  
 tgtaatggtg caatctcggc ctgggcgaca gagcgagact ccgtctcaaa aaaaaataaa 120  
 taaataaaat aaaattaaat taaaaaaaaa aaaaaaaagt ctgctttgaa aaccagtatc 180  
 catagacttc tggcagtcac ttctgggggt taattttgga tgtgacaaag gtttgtttcc 240  
 actggactta attttttcac atcgctctaa cttttgaaaa cacagatata gtccttttgc 300  
 tgaataaaat gaaaactcga gcctaaattt aaaggcatag atatttcctg gacttccagg 360  
 acagtaatat catgtactac tttgtcaaaa aaattttctg gaggtttttc tagaggaaga 420  
 aactaagata acaacaacaa aaaagacaaa tccaaatgca ttacttgaag agcgactact 480  
 catgttttcta gagaattttt tggtcatact atgtcatggg gttatttcct gggggcttca 540  
 gttctgcttc agaattttct tagtagttat ctactgacct catctggtta aattatagag 600  
 gaagttacag tctgtaaagc ttctgtcaac tctgatttcta aaaattttat gtaaagagat 660  
 attttaagag aaataagaaa ataggagatc agggcfaatg aatctaaaga tcttttagctt 720  
 tactcgtgcc gaattc 736

<210> 44  
 <211> 600  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (547)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (549)  
 <223> n equals a,t,g, or c

<400> 44  
 gggctgaccc acgcgtccgc caaatcccag tctttaccat ttcatatcag gatcgttgtg 60  
 tgagggaata acttggtttt ctgtcctcag tttttctcaa tttcaatcca tcttataaat 120  
 ccagcaaaa ttaattttcc taaagacact tttagaattt ctgcaatagc tccttgagat 180  
 caggatgcca gggatattca ttctgttcat gacactagct agcacatttg atcagcgctt 240  
 gttaaacgat tctcaaccca aagatcactc ctagggaaaa agtctccaa tggcttcccg 300  
 ttgccttcat ggtattaaac ctgcaattcc agagctcgat atttaaattt tttagggggc 360  
 tggaattttc cataatactc cttggctatc tactaaacac taagtactag gcatacagaa 420  
 ataacagata cacttgggtc aggcacgggtg gctcacgcct gtaatoctaa cactttggga 480  
 ggccaagggtg ggtggatcgc atgagctcaa gagttcaaga ctagcccagg caacaaagga 540  
 tcctgtntnt acaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggcgccgc 600

<210> 45  
 <211> 687  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (57)  
 <223> n equals a,t,g, or c

<400> 45  
 aattcggcac gagaaaaaat aaaaaaaaaa agccagggtg ggtgggtgggc acctgtnatc 60  
 tcagctacgt gggaggctga ggcaggagaa tctyttgaac ctaggaggca gaggttgcag 120

tgagccaaga	ttgtscacag	ctgggacgaca	ggtgaggctc	ttgtctcaaa	aaaaaaagtc	180
cacatcttca	tgaaccctca	gactctggag	ttgggtgtcg	gcttttttag	ccagcttttg	240
tgggaattgc	ctttgacctt	ttaaagaagg	aaagtgggta	atggagtccc	agccactcaa	300
gagactggat	atcccccgag	aatggccttg	gttaccagct	atggaccctt	ggaagatgaa	360
tctaactcct	ctcactgggt	tttctttgca	aattcatttg	cttttatttt	tctaataaca	420
ataaactcta	ttttccatgt	tctcagggcc	cctgggtaga	cagacacagc	ttgatttcag	480
agcagacata	ggcgaagaaa	acatggcatt	gagtgtgctg	agtccagaca	aatgttattt	540
atatacacat	ccaaatttga	agagaaaatg	tatttcttta	ggtttcaaac	actgtaatat	600
atataaagca	aaaaataaaa	cctgttgcaa	agttcaaaaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaaag	ggcgggcc				687

<210> 46  
 <211> 697  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (97)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (394)  
 <223> n equals a,t,g, or c

ggccgcccctt	tttttttttt	tttgataaaa	gaaaagattg	gtcttgtctc	tgtaaaactg	60
aggaacaatt	acttttagata	actgggtgta	gttttctnct	tctttcttga	cggaagcaaa	120
acagatatgg	gttctaccct	caagaagctt	tagatgaatc	agagatatag	acataaaaata	180
aagaactata	aaacaattca	ttacgcttat	gatagctgta	ataataaaaa	agtacaggga	240
acaataatat	catataacag	agggataaca	tcacacaggg	aacaacagta	tcacatagca	300
gggatataata	caaggatcct	aggtaacctg	gtctggatat	atacaaggat	cccgggtgac	360
cgggtctggc	tggttaagagg	tttccttgag	aaancgatca	gtgagagctg	agagagaagc	420
aggcagagca	agktgatggg	gcaggggtgg	ggagagagca	gaagcgtgac	ccaagagggt	480
cccaggccaa	aaccttttgca	ctcagtgact	ctgaaagaat	gcagaggggc	tgtgggtcaa	540
agctgcagct	ggaaaggtaa	gagggggccag	gcactgcagc	accatgtgga	tcacactata	600
aactttgaat	atcatcctaa	gagaaatggg	aaaccaatta	tggattttta	aaaggaaata	660
tttttatttc	cattttaacc	ggacgcgtgg	gtcgacc			697

<210> 47  
 <211> 286  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<400> 47

ntnctagcac	tcaggagtcc	aaaccattgc	ttttgggtta	gaatgcatga	agaacatgca	60
cgtctatctg	aactacaata	actttctgct	tartctactt	aggctaattg	tgaacatttg	120
ttcattcaca	caaccactgg	tggcagaaga	agagagacct	cttacaccac	tatagcatag	180
gagctgcaat	gtcacatgag	ttttaaaaga	tgctytttaa	agaaaaaaaa	aaacamgrag	240
sargaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaggg		286

<210> 48  
 <211> 858  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (843)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (847)  
 <223> n equals a,t,g, or c

<400> 48						
ggccgccttt	tttttttttt	tttgataaat	acaaagatac	atgtaaagtt	ttacttacct	60
gatttttaaaa	acaggctacc	aaaatttatc	caaatatatt	aaaaaatgag	actgttttaa	120
aaaccttttcg	tttccatatt	gtgactccac	taagcgggta	aaaagttcag	gacagagatg	180
gaaaggaaaag	aaggaaacag	gaagaagtga	aactaggaag	gtggtgccag	tggcacatgg	240
atgaagaaaag	agagatcatc	agccatggag	aattttgtaa	tgtaagtaga	gagagagatt	300
gggtaggaag	acaggcttca	cagtttgtaa	agtgtaaagg	aactacccat	cgtaccctgt	360
cattgactag	ggctgtgagt	tatgtagttc	tgtctcctct	tgcaaaagac	ttaccacttc	420
tggcaagtga	ttaaccactt	ctggcaacte	ttcattttctt	cttatccttg	aatattcatc	480
tacatcactc	taaacagcac	agccccagaa	gcatggaaaag	gggagttatt	agtatggaaa	540
ggggagttac	tcttctggtg	tagtggtccg	attgagttcca	tggcttccca	gccttaccag	600
agctgataaa	aatgtcaatt	cctttggggc	caatcttgct	cctccagtgt	gttttagccc	660
taatgaggtc	atggttattt	ctagacttct	gagacttact	gtggctttga	attgacacaa	720
acactaattt	tctgtcaaag	gctagagtga	tggatgttat	atgcctgcgg	acgcgtgggt	780
cgaccgggga	attccggacc	ggtacctgca	ggcgtaccag	ctttccacta	tccgtgcgtc	840
agncgcnact	gtaaccct					858

<210> 49  
 <211> 1307  
 <212> DNA  
 <213> Homo sapiens

<400> 49						
ggtcgaccca	cgcgctccga	gccgcgaggg	agaggccgcg	gccccttccc	gttgcttgcg	60
gccaccggcc	ggcattcaga	gcccctcgcc	tggcgctaaa	tttaaaaacg	taacacgagc	120
agcaggctgg	tctcggaaac	gaaacgaaat	tcggtccctg	ggcctcctcc	cgggcgctgc	180
cggctccctca	gcgcgcgcgc	ccacccgga	cagacccttc	tcccgcctatt	ttcggcgggg	240
ctgggagact	gaggcccgcg	gcgctgagcc	tgcggcgccc	cggaaagaggc	gggcggcatg	300
gccgctggcg	tggactgcgg	ggacgggggt	ggcgcccggc	agcacgtgtt	cctgggtttca	360
gaatatttta	aagatgcttc	aaagaagatg	aaaaatgggc	taatgtttgt	aaaactgggt	420
aacctctgtt	caggagaagg	agccattttac	ttgttcaata	tgtgtctaca	gcagctgttt	480
gaagtaaaaag	ttttcaagga	aaaacaccat	tcttggttta	taaatcaatc	agttcaatca	540
ggaggtcttc	tccattttgc	cacacctgtg	gaccccttat	ttctgcttct	ccactacctc	600
ataaaggctg	ataaggaggg	gaagttttcag	ccccttgatc	aagttgtggg	ggataacgtg	660
tttccaaatt	gcatcttggt	gctgaaactt	cctggacttg	agaagttact	tcacatgtg	720



acagaggaaa	aaggtaatcc	agaaatagac	aacaagaaat	attacaagta	cagcaaagag	780
aagacattaa	agtggctgga	aaaaaagggt	aatcaaactg	tggcagcatt	aaaaaccaat	840
aatgtgaatg	tcagttcccc	ggtacagtca	actgcatttt	tctctggtga	ccaagcttcc	900
actgacaagg	aagaggatta	tattcgttat	gcccatggtc	tgatatctga	ctacatccct	960
aaagaattaa	gtgatgactt	atctaaatac	ttaaagcttc	cagaaccttc	agcctcattg	1020
ccaaatcctc	catcaaagaa	aataaagtta	tcagatgagc	ctgtagaagc	aaaagaagat	1080
tacactaagt	ttaatactaa	agatttgaag	actgaaaaga	aaaatagcaa	aatgactgca	1140
gctcagaagg	ctttggctaa	agttgacaag	agtggaaatga	aaagtattga	tacctttttt	1200
ggggtaaaaa	ataaaaaaaaa	aattggaaag	gtttgaaact	ttgaaaataa	aatctagcaa	1260
aaataaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaag	ggcgggcc		1307

<210> 50  
 <211> 606  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (606)  
 <223> n equals a,t,g, or c

<400> 50		
aaaaattgga	gacactgttt aacttctgtg catggactcc atcagcakt acaaagccay 60	
tgggaggctg	aggatcactt gagcccagaa gtttgaggct gtagtaagct tcaaaggcca 120	
ctgcactcta	gcttgggtga ggcaagacc tttcaagcag taagctgcat gcttgcttgt 180	
tgtggctcatt	aaaaacccta gtttaggata acaggtctgc ctgcatttct tcaatcatga 240	
attctgagtc	ctttgcttct ttaaaacttg ctccacacag tgtagtcaag ccgactctcc 300	
atacctttta	aaggatatgac aggaactgtc ttcatgtcct tacccaagca agtcatccat 360	
ggataaaaaac	gttaccagga gcagaaccat taagctggtc caggcaagtt ggactccacc 420	
atttcaactt	ccagctttct gtctaattgcc tgtgtgccaa tggcttgagt taggcttgc 480	
ctttaggact	tcagtagcta ttctcatcct tccttgggga cacaactgtc cataagggtgc 540	
tatccagagc	cacactgcat ctgcacccag caccatacct cacaggagtc gactcctact 600	
cttagn		606

<210> 51  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (22)  
 <223> n equals a,t,g, or c

<400> 51	
gggcncccca	aaaattcccc cnrggttttt tttttttttt tttgttttca agaagaaaga 60
agcaatgcag	caaagtgggtg cagaacacag gagctggagc cattcagacc caagtccaac 120
tcttgacctc	gcccactttc tctacagtcc tgagcaatta cacctgccaa gcaccttccc 180
aatggacaga	ctggcaggcc ctactcccaa caggcatcca gactgagcat caccaaggat 240
gggacaaaca	gaagcaatgc aagaggaaat gcgaacacga acatgcacca ctacaccaca 300
acctatggaa	acaatcaggc aaaacaagac taggagacat atgacaagaa aacaggcctg 360

gacgcttcaa	aaatgccaat	gtcacgaaag	acaaaaactg	ggcatgctct	tctggatcaa	420
aggagactaa	agagatataa	caaccaaaca	caataaaaact	atcctagatt	acatcctgga	480
tttttttaaaa	gcaaaaaaga	acaatttggt	aacaactggg	gaaagtgtta	atgtgggtac	540
atttttaa						547

<210> 52  
 <211> 865  
 <212> DNA  
 <213> Homo sapiens

<400> 52						
gctgaatata	aggaaatatg	tctaattggac	accagttaat	acttttttaa	actactcttt	60
aaaaaaaaaa	tacgttcccc	ttggtttaact	gatttttttaa	tccaggggtg	acattttttc	120
aaccttttatt	aaaaagacaa	ataaactatt	ttgtagaaga	tcagactcct	acttaactgg	180
aagagaaatg	tctattaaat	gtctctcctc	tttctctggg	tcaagaccat	gtaattttat	240
gcttcagaga	tgaagatact	gtttgtttac	aaagagttaa	gtttttaaga	catccaaaac	300
tctatgctag	agcaaaaatc	aaatagcaaa	ggacactagc	cagaaaatac	agtgtgtgtg	360
tgtgcacctg	tgtgcctgct	gaacaacttg	acagtgtaac	agataaggta	actgaagatg	420
gtggatatatt	gaattgtatt	agcttaatgt	ctacatatct	ttggccaaaa	ctctattgtc	480
atattagaaa	catgttatct	ttttcatggt	tattagtaat	ttatttttga	ttctttgttt	540
tctttttcgt	ccaactaaaa	caactgtaat	gtacttgata	catttatatc	aagttctaaa	600
gtatttagac	aaatccaaat	actttgtttt	tagttttttc	ctcctttcca	tcctgttaac	660
cacagtgaag	cgctgcagta	ttttgatttg	gtcagtgcta	cggaggaaga	ccatgaaagc	720
tgaattgggtc	tgtgccaccc	agagtaaacc	tcttctcttc	ttctggaaag	atggcgtgat	780
gtttttcaag	gattctaata	aatatcccg	agtcactctc	tgaaaaaaaa	aaaaaaaaaa	840
aaaaaaaaaa	aaaaaaagg	cggcc				865

<210> 53  
 <211> 689  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (309)  
 <223> n equals a,t,g, or c

<400> 53						
tcgaccacg	cgtccgattt	tctgataaga	cgattactaa	gacaaaacttc	tatcctttta	60
cttagtaagc	atcatgacat	catatataat	caacctatct	ttcttcttac	ctttggcaac	120
tcggaaggtc	agtgtctaagc	cttgtgggta	accctagtag	tgacatccct	tcttatgtct	180
tagtaatcgt	cttatcagaa	aatatcatat	aaaataaaca	caaagtaaag	tttttactta	240
aaaagatctg	tagatatctc	actaactcta	ttaatgcttt	ggtaatagct	atttaactta	300
taatcctgnc	ctagatcaag	ttttgaggcc	tcagtgttat	tcattccttg	ggctaagagc	360
cactgaaatg	ggataattat	tgggtacagt	acttctctct	tttaaatggg	ttctgttctg	420
ccattttactc	tttatttgaa	attgccttct	tttaaaagtt	attcttaata	ttgtaagcta	480
tttgaaaata	ggtgagccat	aaaaataaat	attaataatg	tattttcta	tatcttatct	540
aacaaaaata	ataataaata	tccacttttag	aaaatttgga	aaatcatgaa	ggtataaata	600
ctaaaatcga	aattctctat	aagatcaata	ttcagatttg	acctcaggca	aacacagaaa	660
ttaaagttaa	aaaaaaaaaa	aggggcgcc				689

<210> 54  
 <211> 515  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (4)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (7)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (20)  
 <223> n equals a,t,g, or c

<400> 54  
 tanntgnatc cccccgggcn tgccaggaat tcggcacgag ttacaactgg tggaccacac 60  
 accaggcact aatcacctgg tgaggatttg gcatatccac caaaaaatgc atccgattta 120  
 accaacatct ccaccagegc tacggactcc tcccaattct gacatctctt gcagacaata 180  
 ctatgctctc tacacactgt ttagaaatgg aaagggtgatc tgcactgtat cttggggttg 240  
 ttggctatgc ttcctttgat gacatatatt atacagtata tatatacata tattttwww 300  
 gttagagttc tagccatttt atttctccgc agggtccttt ctcagacatt actgcatgct 360  
 gtatatggcg ttagctgtgt gttgatcttc taaaagatga tagagtttac tggtaattgt 420  
 gtaatcagct cctgcctttt tattttcttg gggtatttac atgtcagaga catttataaa 480  
 aagtgaagg ataaaaaaaa aaaaaaaaaa ctoga 515

<210> 55  
 <211> 747  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
 aaaaaggaag aaaagaaaaa aaggaaacca gccctgtcat ggaatttctc tccttccctg 60  
 cacagtaaag acttttgggt tttcatggat aaaatcaatg tcagtactga aactccta 120  
 ctccccctcc gccccactct cccccgttg cccgagatggc caagttcagg cctgtgcaat 180  
 gccgcttccc tctgagcctc cctctcaagg gccacgcagg cagctgcagc agggccagct 240  
 gcaggatggg gctgccgggc actgaattgt cgttcaaatg catcatcttt gtggcgtctt 300  
 tctcatgcga gcaaagccac gtgctctcct gtctgtctgc acatctgtgc ctggattgct 360  
 taaatattgt ttgtgatggg gaggttttaa tctgggtgatg cagagggaag cagggctgtg 420  
 ggggcacggt taattggctc ccagcagcgt ggggagtgct tctatggtgt gtgggggttt 480  
 ttgttgctc cctctagaag tgttacggtt ttcacgtcct attaatgtcc tctgggtgtt 540  
 aaattacagc agcacattac agtgcactgg gttccctcct ggagtgaata caaacggagg 600  
 gcatctactt gtatttttag aagttttggg agaatttagt gatttgtggc twtgatcaat 660  
 cctgttgact ggtgtatgtc tgcgcaaacc tgtttcaaat aaatcttttg ttaaagtaaa 720  
 aaaaaaaaaa aaaaaaaaaa aactcga 747

<210> 56  
 <211> 676  
 <212> DNA  
 <213> Homo sapiens

```
<210> 57
<211> 832
<212> DNA
<213> Homo sapiens
```

```
<210> 58
<211> 1003
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (700)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> SITE  
<222> (758)  
<223> n equals a,t,g, or c
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<400> 58  
 ggtcgaccca cgcgtccgga ggcccgcagc ccggggcggcg cagggttagag cgcgcgggac 60  
 ccggccacgc agcccgggga ctcccggggc ctcccgggag cccgcggggg ccccgccgtg 120  
 catccggcgg gctcagggag cgagtgggag cgccctcccc ccgctgcccq ctcccccgag 180  
 catcgagaca agatgctgcc cgggctcagg cgccctgctgc aagctccccg ctcggcctgc 240  
 ctccctgctga tgctcctggc cctgcccttg gcggcccccga gctgycccat gctctgcacc 300  
 tgctactcat ccccgccac cgtgaagctg ccaggccaac aacttctcct ctgtgccgt 360  
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 acagcctggc ctgytgccc ggcgaggcgs tcgcgcacct gccctcgctc gaggtrctgc 960  
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<210> 59  
 <211> 702  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
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 gttgaagaaa cacaagaaga gaaaattaaa ctggagtgcg agcaaattcc caaaaaattt 180  
 agacactctg caatatcacc aaaaagttcg ctgcatagaa aatcaagaag taaggactat 240  
 gatgtatata gtgataatga tatctgcagt caggaatcag aagataattt tgccaaagag 300  
 cttcaacagt acatacaagc cagagaaatg gcaaagtctg ctcaacctga agaactctaca 360  
 aagaaagaag gagtaaaaga taccacacag gctgctaacc aaaaaataa aaatcttaaa 420  
 gctggtcaca agaatggcaa acagaagaaa atgaagcgaa aatggcctgg ccctggaaac 480  
 aaaggatcaa atgctttgct gaggaacagc ggctcacagg aagaggatgg taaacctaaa 540  
 gagaagcagc agcatttgag tcaggcattc atcaaccaac atacagtgga acgcaaggga 600  
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 gatcatgatg cagagataga aaaaaaaaaa aaaaaaactc ga 702

<210> 60  
 <211> 1095  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (107)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (202)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (556)

<223> n equals a,t,g, or c

<400> 60

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taaaggaaac aaagcaatag gtttggggga cgcccagccc ccaccccgct caccocgctc      180
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gaggcccgag gcacgggacg ctggagaccc tgcgcccctg ccagcacct cctccgtggg      360
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gagaagccat aacgttagac tgcaataacta acgaccgacg cccctccggg cagagaccac      720
cgcgccccctc tgcgccccag cgacggggcc cgcggggacg tcgctgtccg tctgtctcgc      780
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gtcctgcgcc tgcgctcct cctgcatgtc gggggccctg cgtgtgttct ctccggatgg      1020
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<210> 61

<211> 867

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (831)

<223> n equals a,t,g, or c

<400> 61

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aggcatgagc cactgcgccc agccggtctt tttaaacatt cccaggact gtacagccaa      180
cccatactca cctgacattt gggaactccc cccacgggcc ataactgac tgcagaggta      240
agaccaagag caagaatggg ggattcacat ctaaggctct gtgatggctg atgaaggaag      300
aagaatcagc gaacaaaagc ctctaggtct ttcttaacc aaacacctct ctgcccactc      360
gctttgaaag gggcagaagt atagtgggcg agctgcccac ctgctacagt gaagggatct      420
ggagaaatac tcacactttg aggtgctcgc cctcttcac agccagctct aacttaagcc      480
aatgacccca cgggagctta cacaagtyca aacaggccca aatgcattca tgagcagggg      540
gaggccaaag gactccggag gagagaggcc caataaggct ggtgctattt ccgatccata      600
gagagagcag aggtgggag gcccttttga ttaatgtatc attcttgaat gcaagcttca      660
aaatccgggt atgcccgggt agaatgagca ggactaacac ctgggtgtca tggcaagcct      720
ccagggccga ctggccagag acagatccgc aagaggctct gcagccagct ctggtgccaa      780
gccactcgga tttgaacccc ggctcctcaa ggtcagctgt gtagccttga ntgaaycacc      840
tgctatgacc aatctcgtgc cgaattc

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<210> 62

<211> 1134

<212> DNA

<213> Homo sapiens

<400> 62

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aataaacaat	gcttttataaa	caattcacta	ttctaaattg	atactggctt	aagatgttgt	180
tccagtgtca	ggtattgtta	tcgatttttt	ctttccctaga	acctgtccct	tccagtggct	240
ccagtagact	tgtattttat	aatcttttcaa	atattatgta	gcttggttaa	cttcccatca	300
tgatcttggt	cagttttctca	actcatttgc	aaaagagatg	actagcatgg	gagcctggat	360
tccagtatct	gttttagtgc	cttattagtg	cctcttagct	taggttcttt	tgatgattca	420
gcgtccagat	aatccaaggg	agtgcactgta	atcatagggg	tttctagtag	aatgcaatca	480
tgagccctt	aggaagtttt	ggtcaataat	aaaccacaca	taggggtggg	gtcccctaag	540
attataatga	agctagaaaa	ttcctcttcc	ctagtgcgtt	gtagccatcc	cacactatag	600
tagtgcaacg	cgttactcac	tgtgtttgtg	atgatgctgg	tgtaacaaa	cccgcactac	660
cagttgtata	aaagtatagc	atgtacatac	atttatatgt	agtacatata	ttgataataa	720
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ggaaaaaagc	ttatagaata	tgaatataag	gaaagaaaaa	atttttgtac	aactatacaa	1080
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<210> 63  
 <211> 1448  
 <212> DNA  
 <213> Homo sapiens

<400> 63						
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cgcatcaaat	ttgattctca	gagcaataaa	ttatccatga	agtgcctctg	ttctcagtag	360
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gtttccacat	ttgaaaacaa	ctccttttat	aattattcac	tgctttttgt	cagtgaataa	480
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gaaatggaca	gttctttgtg	gactctaccc	ttcccttcaa	ggagtatgtc	atatacaca	600
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aacatgaatt	cagtcatggt	gataattgga	aactcctttc	aggtttttgc	aagtagattt	1140
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ggcgggcc						1448

<210> 64  
 <211> 756  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (354)  
 <223> n equals a,t,g, or c

<400> 64  
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 atgcactaga aataatacat taaactgact cttagtctta atgtacgctt gctgtcttaa 180  
 ataggggtgat tgagtccaac agactcaatc atacatgtca tacatgttta tgattaagag 240  
 atattctttt tgtgtgctag ttgattttgc cgagaaaaaa tgaagaagaa ttcaagaaga 300  
 gatgagggtta ggtaagctct cagagcattt ctgtctgccc atttgggttct atgncttatg 360  
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<210> 65  
 <211> 496  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (472)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (479)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (493)  
 <223> n equals a,t,g, or c

<400> 65  
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 cagagactac agcagctctt caagggggagc cagtttgcca ttcgctgggg ctttatccct 180  
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 ttgagcctac tttggggata aaggattatt tggctctctg gatttggagg caatcagcgg 300  
 acagcatgga agatgtgtgc tctggctcgg ataagagatg ggacatcatt cagtcactag 360  
 ttggatggca caaggctctt cacagacgca tctgtagcag agtggawctt gtactaactt 420  
 atgatagaat gtatcagaat aaatgttttt aacagtgtwa aaaaaaaaaa rnaggrgng 480  
 agtgggtggg gtngag 496



<210> 66  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> n equals a,t,g, or c

<400> 66  
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 ttttgctttt agagataaaa ggtggtggat ttattttgcc tgcagtaaag attctcaggg 240  
 tgtcagagca gcatattgtc aaatcctgct tctgttttat gtttcagtgt attcactttc 300  
 attttcttac ttactagacc atttctgcag ttggccaaa cctctactgt ttgggacagt 360  
 aagccaaaata cctcattttt aaaaagaagt ttatcatggc tcagtgttaa taaagtacat 420  
 ttttaactga gtcttaattc ctatttgaag aaaaagtaga gacaaaagta atgtcaatgt 480  
 aatccccagg atcatgaaat gtatacaaaa taaataaagt aggagagtta aaaaaaaaaa 540  
 aaaaaaaaaa ggcgggcc 557

<210> 67  
 <211> 674  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
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 tgcataatta cggacctgtg tatttccaga gatgatgtt tccccactac atgttaagat 180  
 gtacgtattt aatgacaatg ctgtttgttg tatgagaact tgagacagaa gatttagtag 240  
 gattatccag tgacagtcag tacagggtgc gattaagctg tccttctggc tcttggcctg 300  
 gtatatgttt gtctctggcc atgcagttac agaatagggc aggtggcatg tttatatatg 360  
 cctttgatth cacagaagtt ggtgagcttt cctaagtggg gaattttaga gctagatagg 420  
 attgtttgtg gagagggggc agggaatgga gagttgattc ttcactcttc tgtggtgcag 480  
 ttgaatttac atgtagctgg aactgatttt ccaagggatt atgatggcaa tgagcttaga 540  
 agattggttg gggttttagca cttcagaatt ggatcccttg ccggaaccct tgctaagagg 600  
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 caagggggcc ccaa 674

<210> 68  
 <211> 794  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (345)  
 <223> n equals a,t,g, or c

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 agaagcttgt ctgcttgcca aaagtgggtc agctcattac acagtctcca agccagagag 180

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gttgggcaaa	ggatgaactg	gggatactgc	ctgacctcat	tcgangctgc	ccattgaata	360
ttcggcaagg	aagcctctct	gctaaacccc	ctgagtctga	gggatttggga	gacaggctgt	420
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aaaaaagggc	ggcc					794

&lt;210&gt; 69

&lt;211&gt; 1915

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 69

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attttccctt	ttttgtatga	ctatttattt	agaaaatttc	taggtgaaaa	actaaatgat	1860
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&lt;210&gt; 70

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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atgcaattaa	atctacccct	tttctcaa	tttaaaaaca	catgaataaa	atatctttta	180
cttaagggtca	aacacaaatg	gagtggtgta	ggctgggtcat	ggtgggtgac	acctataatc	240
ccaacactgt	gggaggccga	ggcagggtga	tcacttgagc	tcacaagttt	cagagccggg	300
tgagcaacat	ggcaaaaacc	cgtctctaca	aaagaataaa	aaacttagcc	aggcatggta	360
gctactcagg	gaggatgggt	tgagcctggg	aggcagtggt	tgcaatgagc	caagatcgca	420
ccactgcact	ccagcctggg	stataaagcc	agaacttgtc	tcaaaaaaaa	aaaaaaaaaa	480
ctcga						485

<210> 73  
 <211> 639  
 <212> DNA  
 <213> Homo sapiens

<400> 73	
gaattcggcg	cgagtattaa
gatccattgt	attactgaat
actgccacct	tgtggatatt
aatctgttct	aacaagaagc
ttttaagtgc	tgagatacat
catggtgggt	tactgcaccc
tccctcccc	agcctccac
tccatgtgtt	ctcattgttc
ttcttaaata	caatgcaact
ctagctctgt	tgcccagggt
ctccctggct	caagtgatec
	tccttctca
	gcctctcga
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	639

<210> 74  
 <211> 532  
 <212> DNA  
 <213> Homo sapiens

<400> 74	
atggctgctt	tcaaccggaa
acaagtagtt	ggtgatgata
agcgcaggaa	agtcttttaa
tgatgcctct	gtgtccctct
catgcctact	gagaaggctt
cctcaacgtg	ggatccctgg
tcattcttgg	gccccacccc
gcctgtgttt	ccaccagatc
caggaagtgc	aaggctgaga
	gccagtgtct
	aaggcaacct
	cgtgccgaat
	tc
	60
	120
	180
	240
	300
	360
	420
	480
	532

<210> 75  
 <211> 514  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (507)  
 <223> n equals a,t,g, or c

<400> 75	
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gatcccccgg	gctgcaggaa
ttcggcacga	gccccagcta
	60

ggaagaaaga	atggcactct	tgggcttggc	ccagaattag	agttattaga	gcaagagaga	120
gcttaggaag	catgagggca	actatagtga	ggccttattg	ccaggaggga	gggttttggt	180
tgctggcgct	tgtgtataaa	ggggcaagag	cagctccttt	ggactattcc	tgggaggact	240
ctgatgcagg	gcgtctgttg	ctcccctggg	tcacctcctc	cctgctcgct	gacatctggg	300
gctttgacct	tttctttttt	aatctacttt	tgctaagatg	catttaataa	aaaaaaagag	360
agagagagag	agggtgtgag	gacaaaatgc	aaacctattt	cccttgccctc	ataggcttct	420
gggatgtcat	cacctccagt	ttgttggttt	tgtttccaac	tgtaataaaa	gcattgaaac	480
agtaaaaaaa	aaaaaaaaaa	acaaaanaaa	aaaa			514

<210> 76  
 <211> 644  
 <212> DNA  
 <213> Homo sapiens

<400> 76						
tgcagttttt	tttttttttt	tatttattat	tttactttta	gttctgggat	acatgtgctg	60
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ccgtcatcta	ggttttatgc	cccgcattga	ttaggtattt	gtcctaatac	tctcccgccc	180
ctttccacta	aacaccttcc	tgagtttatg	aatccttgca	gatatgtttt	atgtatatga	240
tcatagtatg	tatgtagaca	cacacacaca	cacacacgtt	ccctctctct	acacaaatgg	300
taacatacta	aagatactct	tctgtacctt	cacagtacaa	gtaccatatt	ccccacttag	360
cacttgccaa	aggccaaagc	cagttaaggg	caggggtgag	acttgccctc	caagctctat	420
gtccagtgtc	cgctccccac	agggccccta	actcaccac	agaagcggac	tcagccccag	480
gctacgtcta	acaaccacac	acaaaagcag	caagaaatgg	cccattgctg	cttctgggca	540
ggacattcca	tcttcgcaga	ggaaccttta	ggctcactcc	gccacctggg	aagccaggct	600
gccaggggat	ggggcaggcg	gttggactca	ctcgtgccga	attc		644

<210> 77  
 <211> 1199  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (469)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (582)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (630)  
 <223> n equals a,t,g, or c

<400> 77						
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tctacatgcc	tgtcccatct	cactgtgagc	aattcaaagg	caggaattaa	gtcttattaa	120
tttctctctt	ccgttgccca	gcatagtgac	cagaacagag	ctcaataaaa	tgtgttgaat	180
agataaatgg	gctgttaaga	gaaaaacttt	agcagaatta	aatttaaagg	agtttaattg	240
agcaatgaat	gattcacgga	tcaggcagcc	cccagaatta	ctgcarattc	agagaggctc	300
caggggtacct	catggtcaga	acaaaaaaag	ggaagtgcag	tacagaaatc	agaggtgagg	360
tgcaraaaca	gctggattgg	ttacagcttg	gcatttgtgt	tatttgaaca	cagtctgaac	420
actcagcact	gtatgaatgg	ttgaagtgtg	gctgctgaaa	ttggctgana	ctcagctatt	480

gttacaggct	gtaatcctaa	attagggttt	caatcttgtc	tgcacactaa	ggtagggttc	540
agttcgtcca	caaggactta	aatacagaag	tatggagtc	tnctcaggcc	atatttagtt	600
tgctttaaca	aggcatagca	gtgataagtn	ccagagagag	gtggtcagca	cgattcatca	660
ctgtcctcag	acaagaagag	gatgaggagg	gatgagccat	ttgtgcctat	tttgkacctt	720
tttggcaaag	tcatgattac	ttagtcatgt	wacatgtaac	ttagcatgac	ccatgggtac	780
agaaactagg	tttaattttt	ttatccaaca	gtgamgtttt	ccatacttca	ctcaagtact	840
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cgcttgtggc	gtgcctggga	aatcaatagc	taaaaaygtt	ttgtgaaccc	ttagtagttg	960
ttacctgggt	aggtttggaa	tgttccagga	gaattaatga	acamtcagg	gatmgttttg	1020
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ttataaataa	gtgcatattt	gccatttaaa	gtaatttttt	tatctgtgac	ttgggcttca	1140
tgggattagc	tataatgaca	cgtctgggag	tctcctcaca	attagaatga	aatcctcga	1199

&lt;210&gt; 78

&lt;211&gt; 660

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 78

gaattcggca	cgagcagagg	cccggtacct	ttaagctcta	cctcgccaat	gccctctcgc	60
ctagtaatcc	gtgcacacag	cctgctgttt	gccatgcaga	atgatggcct	caagttcatg	120
gaaatgggtgc	tccatgtcct	tcaggcaagt	ataggtgttc	tgttgcttat	ggtggatgtg	180
ctcgagcatt	ttcttgccat	gctcattggc	aatgcagggg	ctcctttgcc	actgctggat	240
gtgctgggga	aggatgttat	tgatgtggct	gaaagaagag	agagcaagaa	atgaaatggg	300
tagatgggga	catcagagga	atgagaaaga	tgagctacca	aatggtgact	ctatagggtta	360
ctgagtgggtg	gatgagtgc	cgttgggtga	tgggtgggtg	aacagtggac	gggtgggtgg	420
atgggtggag	gggcagggtg	gtgagtggct	ataaggggtg	atgagcagg	gggtgagtgg	480
ctatgaggg	gaatgagcag	gtggatgagt	ggctataagg	gtggatgagc	atcctgggtg	540
atgtaatgtg	gatgggcagt	tcagtgagt	ggtgactatg	acgggtggatg	ggtgggtggc	600
tgagtggga	tacagatggc	atagatcaca	ccttactttg	cctttgtccc	ttaacctcga	660

&lt;210&gt; 79

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 79

tcgagccccg	gctggcgggc	ctggctgctg	ggtctttgtc	ttctaggttc	ctctttctcc	60
caagaagggc	taagtggatc	ctgtgaaggg	agggatgcag	tggggggaag	gagctggccc	120
cagctgggtt	tacatttctc	gctgggacag	cagagcctca	ctgtgtatgt	gtgcagccag	180
cagatacctg	tgcacaggca	cagacccacc	aactcgtggg	gacacttcaa	cacgcacaa	240
agccattttg	ccactagacc	catgccccca	aattagcaga	actgctcgtg	ccgaattcct	300
gcagccccgg	ggatccacta	gttctagagc	ggccgccacc	gcggtggagc	tccagctttt	360
gttcccttta	gtgagggtta	atttcgagct	tggcgtaatc	atgggtcatag	ctgtttctctg	420
tgtgaaattg	ttatccgctc	acaattccac	acaacatacg	agccggaagc	ataaagtgtg	480
aagcctgggg	tgcctaata	gtgagctaac	tcacattaat	tgcg		524

&lt;210&gt; 80

&lt;211&gt; 434

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 80

gaattcggca	cgagcggcac	gagctcgtgc	cgaattcggc	acgagatttc	atgggcagtg	60
tctggaactg	ccttttagca	ttacttgaaa	aacatttaat	tactttgtac	aaattaataa	120

taacagtgct	actagatttg	ctcagtgcca	ggcataagtg	ctttacatct	gtgaactcat	180
ttaactgaat	tgggtcccggg	gttgggatag	aacagctgcc	cctccttcag	cagcgggtcc	240
agccgtccta	gctctgcggc	ctggccactt	tgttttcccc	aatccctggy	ctccaggagc	300
agggctctca	gctccccctgg	ctctcacgtc	ctcacctgag	ctgaggagag	gacaggggtg	360
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aaaaaaaaact	tcga					434

<210> 81  
 <211> 735  
 <212> DNA  
 <213> Homo sapiens

<400> 81						
gaattcggca	cgagcttctt	ataacctaata	ctctgaagtg	atatcatcac	ttctgctata	60
tcctgttcat	tagatgtgag	tcagtaagtc	cagcccactc	tcaaggaag	gggtgtgaat	120
atcaggaagt	ggggaatcac	tgggtttatc	ttagaggctg	ctaccataac	ggaggaatat	180
tggcatcttt	atcttcatta	acctctaact	ggcttttagt	tcacattcta	caataaatgt	240
agggacaacg	tcactgtggg	atgaacagca	cctgtgggtt	tgtaaccagt	ataaatcaga	300
tattctttat	tattttatgg	tkgttgtacc	tgcctctact	taccactact	ttggaaatat	360
gggagttatt	agmccactg	cactagattt	tgttatttaa	tatataaaaa	gaaattcaca	420
ttactataca	acaacttaaa	aatgtcttgg	acaaaactat	tttattttgta	actttttgta	480
ttttgtttta	tgagatgtaa	aatattattc	tgagaggtga	tccacaggta	ttaccaaact	540
gttaaggcgt	ttgtgacaca	aaaatattaa	gaatccctaa	gcaagtgata	ttcaaagtgt	600
ggttctggga	acagcagcat	caacatcacc	tgggaactag	tctgaaacgc	aaattatcag	660
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caaatacacc	ctcga					735

<210> 82  
 <211> 722  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (697)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (717)  
 <223> n equals a,t,g, or c

<400> 82						
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ggcaaaggca	ggatttgaac	ctagaacctc	tggctccaca	cactagtaat	ctaaaccact	180
ctccctacaa	tacaacatac	gtggtaaaga	tgtgtgggtg	gcacgcaatc	aacgtaggtc	240
ccttcacagt	tgctggggaga	ggcaggaatt	tgcagttcct	ccgcgttctc	ctcctccgct	300
gcccacctgt	cctgggtcat	tcctgcagcs	tgccttgcce	tgctgtgtct	caccctccct	360
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gttcatgagc	acttctctct	tgcaggaggg	cgtaggggag	gggacccagg	tgatttgggt	480
cctggctggg	caccagggaa	gctggcaagg	gaaggagagc	taggtgtcgc	tctaggagaa	540
gcccagagcc	tgagagtccc	agaagaggag	ccctgtggac	cctccctgc	cagccactcc	600
cttaccctgg	gtataagagc	caccacccgc	tgccatccgc	caccatctcc	cactcctgca	660
gctctttctc	cagaccagcc	actagcgcag	cctcganggg	gggcccgtcc	caatttncct	720
ct						722

<210> 83  
 <211> 785  
 <212> DNA  
 <213> Homo sapiens

<400> 83  
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 ctgtgggaga aatgagggaat ttaacacatt gtaggtgtta agattcctgg gtgtctgaca 180  
 gtatccctgg aaccattatc attaatatc ttttcaatca gaaaggcaaa ctactttgct 240  
 gttaggcttc cagatgaggt tttttgaaaa aacagtaaga taataaaggc ttggattgct 300  
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 gaaatgattc tcttcctcag tcaccatcta tctatgcccc caggtttgac tcgctctttt 480  
 cccaaggagt gctgttcatt cctgacacaa gggagaccag aaaagagatc atgaatgaca 540  
 gtgaaaacct ttatgacact gacataaagc agagagttag actgaatatg agttggtagc 600  
 ttttcctttg tatctgtgta agttgaatca taaaaaattg tcatttttgtt gattcaaaag 660  
 tgtaaaacaa aagcaagttc atatgattca agcttacatt tttttctcac tataagaaag 720  
 aggatttaaa gaattgtatt aggttagcga atctgatttc tttcatgcaa atacagctcc 780  
 tccga 785

<210> 84  
 <211> 570  
 <212> DNA  
 <213> Homo sapiens

<400> 84  
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 ccctcgagtt gaattagaga aaacgacatg gacacacgtg gagggttttt aaggagcggg 120  
 gagtttaata ggcaagaagg aaggggagaag acagaaggaa gaagctcctc catatggaga 180  
 cagagggagg ggggtccaa agccaaaaga ggaggtcccc aagtgcagtg gacaccagcc 240  
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 gtttgaccac gcatgttatt cacatagccc actaaaaagc tggctctccc accctagtct 360  
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 ttctacacat gtggggcggc catgttgcca ggaacatgtg aggcaagggt aagaaggcct 480  
 tgggaattgc catgttgggt ggacccagtt tctaattggc tgcatttgca tatcaaaggt 540  
 tgctcgtgcc gaattcctgc agcccgggg 570

<210> 85  
 <211> 905  
 <212> DNA  
 <213> Homo sapiens

<400> 85  
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 aactgatcta gtttatcact ctcttatctc tacaatttat ctttactca aagaactaaa 120  
 gttatcttcc aaaaacacag aatgaatcag ctactctcc tcaagactct taaatgggtc 180  
 ttcattactt gttgagaaaa gccagactt gtttagtgga gcaattaaac tccccacaat 240  
 ttatctgcca gaagactttc tggaaccatg tatggttttt ttgcccctca acttacagtc 300  
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 attattttct gacacatttt ctccatattc ttttaaagag tttctttttt aaacccatgt 540  
 tattcaaggt taaacaaata acgagtttct ttgtttggat gttatgctta cacttacttg 600



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aatatgttgt tttttttcca gactagccat tagcaagatt cctgtggagt gagggagtgc 660
ccagggtagt tctccagatt attctgctca aattcttctt cttctcatgc tgcagtgatg 720
aattatttct tcaaaactat gacccactg tgtagctcca ctttctcttg ttctcacaag 780
agtgtacaaa atcgttgagt cttctgagcc atggctaaca agaatectag ctactgcctt 840
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<210> 86
<211> 706
<212> DNA
<213> Homo sapiens

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<400> 86
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catgcataat cttatatcaa gtataatttc atttttatat aatttctgtg cttacctct 180
tgcttctccc caattcacaa atgaagaaag tagttacacc gcccttcgtt catgtacaag 240
gggagggttt gaatccaggt ctctaggaac ccaaaagtca tgcaccttc aaggcaaagg 300
agattacat gttacagcat agataaaaac ataatagaat taggaattgg ataagtatag 360
agggttcaat agtgttcccc caaaattcct ctcaacactg aagctcagaa tgtgacctta 420
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gattaatttg ggtcctaaat ctaatgactg gtatcctttt aagaagaaga gaaaacacag 540
gacacagaca caaggaagca gcaaactgta agacagagggc tgggggtgta gtgatgcagc 600
tataaggcat ggggccaccg gaggctggga agggataagg agggaccctt ccccaaagcc 660
ttcagaggga gcagctgaca ctttgaattt ggacttctag cctcga 706

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<210> 87
<211> 1544
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (1)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (8)
<223> n equals a,t,g, or c

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<400> 87
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ataacttctt tgcataatgac aatacttatt tgtatataag agaaagaacg aaataacctt 180
tattgaaata aagatactat gcaagaaaat gtacagttgt cgaagtggag aaaatgagga 240
tatattcttg cagacgagct ataggtcata catgaatgtc tagtgagaca ttcaaaattc 300
gtataggggtg cagagtaatt tcttattgtg aggaactgtc caatgtattg caagatgttc 360
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ggtgacaacc acaaacccta tcagatctat tcaccttttt cagagcagat attttghtaac 480
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atttataatg aaaagaagat gaatttcatt atgtaaacgc tcaggcatga ctacgtgtgt 660
tgaaacagac agatgtttac tcttcttctg aatgagtagg tttggattta agagccgatt 720
agaggctact tctgtaaac aagtcacagga aaatgaaact agacgggtgg gggcactag 780
aatgaaaacc agtgttaggg taaagacaaa acagactatg tacataatct gtatatggga 840

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aaagaaagag	cgaaattacc	ttacttaagg	ataataggac	aagacaaatt	acagattgtc	900
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caggacatta	gacagtcgta	cagggtagac	aataattctt	cgttgtgtgg	cactaaccoa	1020
cacactgcag	gacatcgttc	tccctggctg	catccactca	gtgctgggag	tagtcccag	1080
ttattatgaa	accaccaata	accactgac	cacagtgaga	accactgatt	ttttccactg	1140
acctactgaa	tatctagcat	ccttagattg	gctcaactgt	tactttccta	aggagtcctt	1200
ctacagaata	ggtcagatct	tggcctccca	aacccttat	ttttaaaata	ctttgcgcct	1260
tgctttgata	atttgtatta	tgtatccaaa	ctgaaattat	ctgctttctg	cattagaatg	1320
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ccagcagcat	gctttgtaca	ctgatatatt	gggtaaattt	tggtgaataa	attaagctca	1440
actatttgta	tttcaatagt	tgagttgtat	tgcttcctgt	tcttcaagct	taatttgaac	1500
tgtctaataa	aaagaagtaa	ttaaaaaaaa	aaaaaaaaaac	tcga		1544

&lt;210&gt; 88

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (326)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 88

gaattcggca	cgagcttttt	cattatcttt	accttaatct	cttagcatat	gatttatgga	60
ctggaatggg	gagtgatata	agtgggcaaa	aacaatcatt	agaggctgtt	aaggaacatt	120
tattgtttat	ttggctacct	gtctataaaa	gtacacatga	aggccctaata	agcaaaatat	180
caaattatca	agtgtcttaa	agcagaaaaa	gtcatttgtt	tctcaaaaact	gcaccaactt	240
tatataattg	cccttttaaa	tatccctagt	ggcccgtaga	atttgcaaaa	tagagcatca	300
aagcttgatt	tacttacagt	tgcacnttgg	cgggatctta	atgaatattg	tttagtacta	360
atgctgagat	ggaatcgtaa	atgtttatag	tgagggaact	acttagaaga	gtggggaggc	420
cagtaatgaa	actgaatcaa	ctgggttctt	caagatggaa	caatatggcc	atattcttgg	480
gcctaacatt	ttgaaaaatt	ctttttatag	tgggaatttta	tttttaattc	aggtctagat	540
gaatacacat	taagtttagt	tttgcagaat	cttttttttt	ctgcctagct	atcttattac	600
tttccaaggg	cttttgagga	gtaatttgtt	tcttggaact	ttcggaattaa	aatcacctgt	660
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&lt;210&gt; 89

&lt;211&gt; 510

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 89

gaactastgg	atcccccggg	ctgcaggaat	tgggcackag	gctgcgctcg	gccaggccgg	60
caccatgagg	cccctgctct	gcgcgctgac	cggactggcc	ctgctccgcg	ccgcgggctc	120
tttgcccgct	gccgaaccct	tcagccctcc	gcgaggagac	tcagctcaga	gcacagcgty	180
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cgtggatcac	ctggggacag	aggtgaaagg	cctgctgggc	ctgctggagg	agctggcctg	300
gaacctgccc	ccgggaccct	tcagccccgc	tcccgaacct	ctcggagatg	gcttctgagc	360
cctggagctg	gagcccagca	gttgagggtg	gtgcacctgc	cagcagcgcc	cacagaacca	420
gccctgtcct	ctcgacttcc	ttccttagct	tcatgtgaaa	taaaagctat	tctggtcaaa	480
aaaaaaaaaa	aaaaaaaaaa	aaaaactcga				510

<210> 90  
 <211> 738  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (14)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (66)  
 <223> n equals a,t,g, or c

<400> 90  
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 ttcccnnggt cgacccacgc gtccgggtcaa taactgtcat agtgaaaatg tggtttttaa 120  
 gagtagtagc tacttatggg ggtgtagaaa gaatggcctc tctcttagac aatttcattt 180  
 taaacatcat agtcatcttt tgcatagtga ttgactccta tctttgtggt ttcattgtatt 240  
 tctttgtgat tgattcccca gtgcctgcct gcagtcctatt gcaactctcc caaactttaa 300  
 tcctgcagct tcagcccact gctagatatt tccattgatg acctgtcatc tgaaacctag 360  
 cattcatcat gtgctgtgtt gtataattgt atgtctgtgt tattgtatta ctttcccaag 420  
 taaagttttt gtgtaaggac ttaacactgc tttgaatccc ctgtacctat tatactgtg 480  
 tgtacaaagt aggagtcaa atacatgtga tcacaatagt cttccattca taactcatca 540  
 gcagctcagt ccttcttatg tctagtctca gttcattcag ccaaagctca tttttgtcct 600  
 atccaaagta gaaaggyttc ttttagaaaa cttgaagaat gtgcctctctc ttagcatctg 660  
 tttctgactc ccagttattt ttaaaataaa tgatgaataa aatgccaaaa aaaaaaaaaa 720  
 aaaaaaaaaa gggcggcc 738

<210> 91  
 <211> 506  
 <212> DNA  
 <213> Homo sapiens

<400> 91  
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 tttatagttc tctgttgaaa gagccacag ggaggagagg tgagctgagc atttgaaatt 120  
 caggatctgg ttaakgttgt cagctcagtg gatttgagaa tattcacaga taagcaactc 180  
 agaaggatca tacttgtatt gtaggcctc aggtattcag gaaatagatc ttctcttggtg 240  
 attcaatagc cataatccaa attaaacatc tggcttttcc aatgtgtatt tttgaatgta 300  
 tgtgtcattt cttcatagac atatcaaacc attactatgt ggtaagattt tatccagaag 360  
 attctcttcc taaaaccttt atatatgacc cttttaaagc ataaaattat tttagggtgtg 420  
 agtttttatt atgcaatata aggatacagt ctttaatttt ctacctttaa gctcgtgccg 480  
 aattcctgca gcccggggga tccact 506

<210> 92  
 <211> 1203  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1165)  
 <223> n equals a,t,g, or c

<400> 92  
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 agaaaatcta caattgtcac gtgctgctga acagaaaggg gcagtagtgg ccacttacag 120  
 gaagacacat ctgtgtgacg tagagattcc agggcagggg ctatgtgtga aagcaactct 180  
 accatgcctg ggcccagctc tgagtcacct gtcagcacac cagcaggcaa gattgggtcta 240  
 gctgtctgct atgacatgcg gttccctgaa ctctctctgg cattggctca agctggagca 300  
 gagatactta cctatccttc agctttttgga tccattacag gccagccca ctgggaggtg 360  
 ttgctgcggg cccgtgctat cgaaaccocag tgctatgtag tggcagcagc acagtgtgga 420  
 cgccaccatg agaagagagc aagttatggc cacagcatgg tggtagaccc ctggggaaca 480  
 gtggtggccc gctgctctga ggggccagggc ctctgccttg cccgaataga cctcaactat 540  
 ctgcgacagt tgcgccgaca cctgcctgtg ttccagcacc gcaggcctga cctctatggc 600  
 aatctgggtc acccactgtc ttaagacttg acttctgtga gtttagacct gcccctccca 660  
 cccccacct gccactatga gctagtgtc atgtgacttg gaggcaggat ccaggcacag 720  
 ctccctcac ttggagaacc ttgactctct tgatggaaca cagatgggct gcttgggaaa 780  
 gaaactttca cctgagcttc acctgaggtc agactgcagt ttcagaaagg tggaaatttta 840  
 tatagtcatg gtttatttca tggaaactga agttctgtct agggctgagc agcactggca 900  
 ttgaaaaata taataatcat aaagtctgtg tctggacatc gcctttggga actagaaggg 960  
 gagttggtat tgtaccagct ggactaagct ccagttctag acctcctggc tcattcaaca 1020  
 tgccctccca cctaaataaa agtgcaacac tcagtgcagt tcccagcccc attctcccaa 1080  
 gcatgggagt gggcgtagga gtggaggagg ggggaaggaaa aagggaattac ttcacttaca 1140  
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 att 1203

<210> 93  
 <211> 710  
 <212> DNA  
 <213> Homo sapiens

<400> 93  
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 tcccaaagtg ctgggattac aggtatgarc ctcccaaagt gctgggatta caggcatgag 120  
 ccactgtccc cagcaggatt atcttactat attgtgccac agaataatattt attagcgttt 180  
 gattggaatt acatagaatt ataaatttgg tatttgtgac tttctgctgg aaatcatgat 240  
 accatgaaca ttctgatgtt tgcgtttatg ataattttca tgggagctaa atttcaagaa 300  
 gtagaatttt gggtcagagg atatgatcat ttaaaagcaa cattgtttga tcagattggtc 360  
 agatacttaa agatgggtgg acaggagcca ttgctggcaa aggtttgggt aaggggcact 420  
 tgagtatgct gctagtgaca gggaattcta cgcatttgtg catagaatct gggaatgact 480  
 attaagattt atttattccc tctctaggta aaatccctct ctaggtatat aaataaataa 540  
 taaataataa ataaataatc agtttccagcc aggcacaatg gctcacacct gtaatcccag 600  
 cactttggga ggccaaggcc gatggatcac ttgaggtcaa ggagtttgag accagtctgg 660  
 ccaacgtggt gaaaccccat ctctactaaa aaaaaaaaaa aaaaactcga 710

<210> 94  
 <211> 1750  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (34)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1287)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1392)  
 <223> n equals a,t,g, or c

<400> 94  
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 cttaagaaca aagttaaaat taaaaagtct ttatccaagt caccaatgaa acaggattct 120  
 gattcattaa tcatgtcttg cccacttttt tcaacaaacc tgacgtccta taatgagcta 180  
 tacagtgtga ggcataatttc atagcaacgt tgggttgattg ccaaggagac tctgccaccg 240  
 ttctggataa gctcatgttt cccttttctt tggctgctaa tagaagggca acttacagtg 300  
 caggggtcaag agcaagaagc tgggggagta gagggctatac atctagccta ataatagaga 360  
 tctgaggtgg tyaccaggag actacgttct tttgattcca ttcttcagca gcaaaagtac 420  
 ttgagttcaa atgataaaaac ttgaagttgt aggcttggaa gagtatcagc tcagtatatc 480  
 cttccttgca taaatacaag ggaaaggcca aggaataatc agcattaacc tgccagggtcc 540  
 aaggggtcttc tatccctgac ttcatctgag tcacaagatt tctctaataa gagaaacttt 600  
 gctactctga ggaaaattat cccttatggg agcccccagt tcagaggtaa gaacagttct 660  
 ttcaagtgga ggtccaaaat tctggacttc tagaaacaag tgaagtgtgc taaagtctcc 720  
 tattttattgt ttctcttcca gtattgtgac atcgattctt gcataaaaatt ctggaatgct 780  
 ggctcttcat ggcttttctc tgtaactctg tgggtcaatgt catcagtatc gctgtctgct 840  
 tctctatcct cttcatccaa ggttcctcga gtcaggatca aatcagaagg gtgcagcaca 900  
 ggagataagc tgtctttggc agtccctgca tccaaggcta cagaacccat atcttttcga 960  
 agggcttcca gttgttctct ctgctgttgg ctctctgcgt tggccagtga ttttttcaga 1020  
 cggttcatatt caggacgata ctccctttca tattcttcgg cagcactggg aacttgcaca 1080  
 aagagttcat ctaatccagt acccagaaca gcagagacac ccaccacct gagtgagctg 1140  
 taaaactcat ctaacaccag gctcattgaa cgagtcaggt tatgacgtat gtagtctctt 1200  
 gattcaaggc atcttggaag gcctyaaaat cctgcatcca ttccactgca aagctgtggt 1260  
 caatgatgtc agttttattc atgcccncaa tgaaagccag cttgggttttg tataagatgc 1320  
 tgcaggcata gagcatgttg cacatgaagg tcaactgggt ggtaacttct gatgtgtcca 1380  
 ttacatagat gncaactgtt ggaaatgagg atgcaagggc ttcagtgata attgtcccag 1440  
 aagctgacca ggtgaatacc tcaatctgtc cagggtgtgtc aatcaacaca tatttgga 1500  
 tgttctgggc cttctcaata aatttcatca ccaatattgg caggaaaggg aacttcatgt 1560  
 actgctggat ccagggtgat cacatacggg ggagtgccct gggcatgcag gtgtcctgtg 1620  
 agcctctgta caaaagtggg tttcccggat cccgccattc ccaacaccaa cagacacact 1680  
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 ctctgggcaa 1750

<210> 95  
 <211> 606  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (272)  
 <223> n equals a,t,g, or c

&lt;400&gt; 95

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attacactca	tacaattgat	gtttttat	aatacaccag	agctaccaca	caaaacttcc	120
ttccatgtga	aaggctccag	ataaaattct	gccatccctc	ctctctctcat	gtctctctgc	180
tcagaccac	cttcatgccc	ctaaaccaat	ctgcatcatg	cctgtttcag	agagtcattg	240
gaagatgggc	agtgcctcca	ttgtcaccat	tnccccacac	ctctgcacac	ttctgcccct	300
tccccctctag	acgccacaac	ttcacagtct	tactgtttgta	aatattcctg	cacagttagt	360
aatgatcaaa	tgatcctgtg	gtcagaggcc	tctttggcag	tgtcttctta	cccttaagaa	420
aggctcatgaa	atccagaagg	ggcaaccttt	ccaggagagc	tttggagtca	tttctgtgtg	480
agacactatt	gcataatcct	gtaagattgc	ttttatat	aaggaatgat	gttacttaac	540
aatgaacaa	aaaaaattgc	aaataaattt	tttaacaatg	tttaaaaaaa	aaaaaaaaaa	600
actcga						606

&lt;210&gt; 96

&lt;211&gt; 617

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 96

gaattcggca	cgaggcggaa	gatagattaa	aatgtctcta	cttctctttt	taaaagttca	60
tcttttttagc	ccttctacaa	ttttcaaaag	aaataattag	atggctcgtg	taacattttat	120
atgaagaaaa	tagtttgaga	caacctaaat	atgtcaatac	trgawtaatt	attaaaaataa	180
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atttaattat	atgggaaaat	aatcagtaaa	tcttttttaa	acagaaggta	aaactataca	300
tagttcaata	tagtaaaagag	ggccggggcac	agtgtctcac	cctgtaatcc	cagcactttg	360
ggaggccaag	acagggtggat	cacctgaggt	tgggagttcc	agactagcct	ggccaacatg	420
gctagtctct	actaaaaata	caaaaatcag	ccaggcatgg	tagcaggcac	ctgtaatcca	480
agctacttgg	cagggaaggc	aggagaatta	cctgaacca	gaaggcagag	gttgcggtga	540
gccaaaatca	tgccactgca	ctccagcctg	ggcaccagag	tgaaactctg	tctcaaaaaa	600
aaaaaaaaaa	aactcga					617

&lt;210&gt; 97

&lt;211&gt; 634

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 97

gaattcggca	cgagatccct	tgacccctcg	ggtaggcaca	gggtaggtgc	agcagggatg	60
ggggccagcgc	tcatgggtggc	ctctctgtgc	ctcgggtggac	ctgccccagc	agtgggagcc	120
ataacccccct	cccccttcat	tacttcaactc	aggtgggcac	cttccccctgc	aggggtgtctg	180
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cgtgtccccct	gctcctcgcc	cctgggagcc	camtcccmct	ccttgcggtc	ccctcccatc	540
tacttcaagg	ttctctgagg	acattaaagt	ggtggattca	ccctgaaaaa	aaaaaaaaaa	600
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaac	tcga			634

&lt;210&gt; 98

&lt;211&gt; 512

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
 <221> SITE  
 <222> (483)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (487)  
 <223> n equals a,t,g, or c

<400> 98  
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 ataatttttac ttttcaacta cagaaaagat gtatctgggt aaagaaaatc atgcatttaa 120  
 ctacatcaat gcagcctatg aacaatagcc tgtgaccata actagatatc tcaccaacgt 180  
 ggcagctctt cctaaccaaa agatcaaate aaaactctag tggcattttc ctatcactca 240  
 cagaacaggc taagcttccc acctggagta gaccgggagc ctagaactca taaaaatttt 300  
 taaaaatcaa acaaaacatg aaagtacaaa gtttctacaa aactcttate cctctcctga 360  
 caatatttat gatggtggca ttagtgaatt ttactggaaa aaaaaattcc caaaactatc 420  
 cagctggraa tataagctca cttccaaagg ataaaacagt taagacgaga ttaggataaa 480  
 ttnactnaca aaaaaaaaaa aaaaaaactc ga 512

<210> 99  
 <211> 944  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (486)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (934)  
 <223> n equals a,t,g, or c

<400> 99  
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 ctctcagcct ctccagctca caccgtcaac atgcgggacc ctctgaaccg agtcctggcc 180  
 aacctgttcc tgctcatctc ctccatcctg gggctctcgca ccgctggccc ccacaccag 240  
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 ggagtgtgag caacctggac cacaagccca gtggtcacc ctgtgtgagc ccgccccagc 720  
 ccaggagtag tcttacctct gaggaacttt ctgatgcaa agtgtgtata tgtgtgtgtg 780  
 tgtgtgtgtg tgtgtgtgtg tgtgtttatg tgtattttgt aatatgtgag ggaaatctac 840  
 cttcgttcat gtataaataa agctcctcgt ggctccctta aaaaaaaaaa aaaaaaactc 900

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944

<210> 100  
 <211> 2351  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (593)  
 <223> n equals a,t,g, or c

<400> 100  
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 agcaatggca gagtatatatt cgtcaaccac aacacacgaa ttacacaatg ggaagacccc 120  
 agaagtcaag gtcaattaaa tgaaaagccc ttacctgaag gttgggaaat gagattcaca 180  
 gtggatggaa ttccatattt tgtggaccac aatagaagaa ctaccaccta tatagatccc 240  
 cgcacaggaa aatctgccct agacaatgga cctcagatag cctatgttcg ggacttcaaa 300  
 gcaaagggtt agtattttccg gttctgtgtg cagcaactgg ccatgccaca gcacataaag 360  
 attacagtga caagaaaaac attgttttgag grttcccttc aacagwtawt gagcttcagt 420  
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 ggaggtgtag caagagaatg gttctttctt ttgtccatag aagtgttgaa cccaatgtat 540  
 tgctgtttg aatatgcagg gaaggataac tactgcttgc agataaaccg cgnttcttac 600  
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 ttccatggga aattcataga cacgggtttt tctttaccat tckakaagcg tatcttgaac 720  
 aaaccagttg gactcaagga tttagaatct attgatccag aattttacaa ttctctcatc 780  
 tgggttaagg aaaacaatat tgaggaatgt gatttggaaa tgtacttctc cgttgacaaa 840  
 gaaattctag gtgaaattaa gagtcatgat ctgaaaccta atgggtggca tattcttgta 900  
 acagaagaaa ataaagagga atacatcaga atggtagctg agtggagggt gtctcgagggt 960  
 gttgaagaac agacacaagc tttctttgaa ggctttaatg aaattcttcc ccagcaatat 1020  
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 ttgaatgact ggcaaagaca tgccatctac cgtcattatg caaggaccag caaacaatc 1140  
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 gtaaaatttg acaatggctc tttagagagt tatctgagtg taagtaaatt aatgttctca 1560  
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 gcaagactct tgcactctca caaagtagtt ttgtcaattt gaattcaggg aaaagttggt 2040  
 cacagcctgc aaatgacttc atttggaagt ctgattgttt cagttgcctg acaaatacta 2100  
 cactttacaa acaatgttaa cactgtgatt ccttcattgt ttttaagaagt taacctaggg 2160  
 ccgggcatgg tggctcatac ctgtaatcct agcactctgg gaggccgagg caggaggatc 2220  
 ccttttagccc aggagttaaa gaccagcctg ggcaacatag ggagaccctg tctttttttt 2280  
 gggcagcgtg gtgggggata aataaaaaaa aaaaaaaaaa actcgagggg gggcccgtag 2340  
 ccaatcgcct g 2351

<210> 101  
 <211> 776



<212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (775)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (776)  
 <223> n equals a,t,g, or c

<400> 101

aatgaaggct	ttgtggacaa	catgacgctg	agtggcccag	acttggagct	gcatgcctcc	60
aacgccaccc	tcctaagtgc	caacgccagc	caggggaagt	tgcttccggc	ccactcaggc	120
ctcagcctca	tcatacgtga	cgaggccct	gacaacagtt	cctgggcccc	tgtggccoma	180
gggacagtgt	tggtagccg	tatcattgtg	tgggacatca	tggccttcaa	tggcatcatc	240
catgctctgg	ccagccccct	cctggcacc	ccacagcccc	aggcagtgct	ggcgcctgaa	300
gccccacctg	tggcggcagg	cgtgggggct	gtgcttgccg	ctggagcact	gcttggcttg	360
gtggccggag	ctctctacct	ccgtgcccg	ggcaagccca	tgggctttgg	cttctctgcc	420
ttccaggcgg	aagatgatgc	tgatgacgac	ttctcaccgt	ggcaagaagg	gaccaacccc	480
accctggtct	ctgtcccca	ccctgtcttt	ggcagcgaca	ccttttgtga	acccttcgat	540
gactcactgc	tggaggagga	cttccctgac	acccagagga	tcctcacagt	caagtgcaga	600
ggctggggct	gaaagcagaa	gcatgcacag	ggaggagacc	acttttattg	cttgtctggg	660
tggatggggc	aggaggggct	gagggcctgt	cccagacaat	aaaggtgccc	tcagcggatg	720
tgggccatgt	caccaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaann	776

<210> 102  
 <211> 1065  
 <212> DNA  
 <213> Homo sapiens

<400> 102

gaattcggca	cgagagggtc	agggaggctg	ccccaggcc	tgtatatatta	acccttatgt	60
accaggagta	atgaatagta	ataattctat	ttatgtaagt	tatgatgacg	ggtcaggtag	120
agtgaagctg	ggagggaagt	ggatccatth	ctgctaagga	aattctagtc	aatgcatct	180
ctgtatagac	aaaatgttag	tggagaagat	cttgtaata	gaatgtctat	catcagaatc	240
tcagttgata	gggtttctct	tgtaatgaag	tctctacaaa	ttgggttagc	tacatctctg	300
ctaaacagtt	gatgggggat	ctcttgatta	gggggatccc	taatatcccc	agccccagcc	360
agaagctgtg	aaacctcaag	tcctatggag	gggagaagga	ctggaatgta	ccccatctyc	420
cttgactgma	gagcagggtc	ctccactgcc	ccaccctta	gacaccatgm	ccccatcagg	480
ttaatccccct	gttgccatgg	ttatggagac	ttgcagctgc	catcttagat	gtgctctttg	540
gggaagccca	tctaacagga	ggacattggt	ttgggggtgc	acctcctgaa	gaatgggtgg	600
ggaaggcttt	ctctaggatc	agattcaa	aatcaagta	tgtattgagt	gcctactctg	660
tgcaaggcac	tatgctagat	ctggtgccta	gaagccctga	gaaagaactt	aaagagctag	720
gaggacagag	gcccccaagc	tgatctgggtg	gtgcatccac	gcacccccac	cctgggactt	780
tggatgctcc	catctccacc	tccagtga	tttaaagccg	cttcgtgcct	ttcctgtaac	840
gttggatcct	ccttttctgt	cccctgctgt	ctcaaggccc	caagttaaag	ggttaaagcc	900
gctggagctt	ggggagagaa	cattgtggaa	tggaaaggat	catgcccttt	gtggagtctt	960
ttttttttaa	tttaataaat	aaaagttgga	tttgaaaaaa	aaaaaaaaa	aaaaaaaaa	1020
aaaaaaaaa	ctcgcagggg	gggcccgtac	ccgaatcgcc	ctatg		1065

<210> 103  
 <211> 687  
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (660)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (664)

<223> n equals a,t,g, or c

<400> 103

aaaccagctt	ttgccctgat	tacgccangc	tcgnaattam	cctcactaaa	gggancaaag	60
ctggagctcc	accgcggtgg	cgcccgctct	agaactagt	gatccccgg	gctgcaggaa	120
ttgggcacga	gcagaaaaca	acatggaagc	caagttccta	ggaaatgcac	cctgtgggca	180
ctacacattc	aagttcccc	aggcaatg	gacagagagt	aacctcggag	ccaaggtgtt	240
cttcttcaaa	gcactgctat	taactggaga	cttttcccag	gctgggaata	agggccatca	300
tgtgtgggtc	actaaggatg	agctgggtga	ctatttgaaa	ccaaaatacc	tggcccaagt	360
taggaggttt	gtttcagacc	tctgatgggc	cgagctgcct	gtggacggtg	ctcagacaag	420
tctgggatta	gagcctcaag	gacatttgt	gattgcctca	catttgcagg	taatataag	480
cagcaaaacta	aattctgaga	aataaacgag	tctattacaa	aaaaaaaaaa	aaaaaaactc	540
agggggggcc	cggtacccaa	tttgcacct	tagtgagtcg	tattacaatt	cactggccgt	600
cgttttacaa	cgctgtgact	ggggaaaccc	tggcgttacc	caacttaata	gccttgnagn	660
aacntccctt	ttcggcagct	ggggtaa				687

<210> 104

<211> 804

<212> DNA

<213> Homo sapiens

<400> 104

gaattcggca	cgagattttc	ttcatgcagt	attctcagat	tggaacatg	cttcatgttt	60
cttataaata	accctcaatt	atgagggcgt	acttttcact	ttgaagaaaa	ttgacttgca	120
ttaaagtggc	taacaattct	ttcctgggca	ggatgtaaaa	ttttcctctc	ctctaatacc	180
agtactgttg	agctcacatt	ctcccacttt	tcctcttttc	aggtgggtca	cgtatttggg	240
attttatgaa	acctcagaag	cagacatgtt	aactttttct	atctttttat	tccttgaggt	300

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<210> 105
<211> 373
<212> DNA
<213> Homo sapiens
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<210> 106  
<211> 687  
<212> DNA  
<213> Homo sapiens
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<210> 107
<211> 37
<212> PRT
<213> Homo sapiens
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<400> 107  
Met Glu Val Leu Phe Asp Ser Leu Leu Phe Ser Ser Phe Ile Phe Pro

1                      5                      10                      15  
 Ser Gln Ser Leu Leu Ser Arg Thr Ser Ala Phe Ser His Lys Pro Asn  
                     20                      25                      30

Gly Leu Ser Glu Xaa  
                     35

<210> 108

<211> 457

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 108

Met Val Thr Cys Thr Cys Leu Pro Asp Tyr Glu Gly Asp Gly Trp Ser  
                     1                      5                      10                      15

Cys Arg Ala Arg Asn Pro Cys Thr Asp Gly His Arg Gly Gly Cys Ser  
                     20                      25                      30

Glu His Ala Asn Cys Leu Ser Thr Gly Leu Asn Thr Arg Arg Cys Glu  
                     35                      40                      45

Cys His Ala Gly Tyr Val Gly Asp Gly Leu Gln Cys Leu Glu Glu Ser  
                     50                      55                      60

Glu Pro Pro Val Asp Arg Cys Leu Gly Gln Pro Pro Pro Cys His Ser  
                     65                      70                      75                      80

Asp Ala Met Xaa Thr Asp Leu His Phe Gln Glu Lys Arg Ala Gly Val  
                     85                      90                      95

Phe His Leu Gln Ala Thr Ser Gly Pro Tyr Gly Leu Asn Phe Ser Glu  
                     100                      105                      110

Ala Glu Ala Ala Cys Glu Ala Gln Gly Ala Val Leu Ala Ser Phe Pro  
                     115                      120                      125

Gln Leu Ser Ala Ala Gln Gln Leu Gly Phe His Leu Cys Leu Met Gly  
                     130                      135                      140

Trp Leu Ala Asn Gly Ser Thr Ala His Pro Val Val Phe Pro Val Ala  
                     145                      150                      155                      160

Asp Cys Gly Asn Gly Arg Val Gly Xaa Val Ser Leu Gly Ala Arg Lys  
                     165                      170                      175

Asn Leu Ser Glu Arg Trp Asp Ala Tyr Cys Phe Arg Val Gln Asp Val  
 180 185 190  
 Ala Cys Arg Cys Arg Asn Gly Phe Val Gly Asp Gly Ile Ser Thr Cys  
 195 200 205  
 Asn Gly Lys Leu Leu Asp Val Leu Ala Ala Thr Ala Asn Phe Ser Thr  
 210 215 220  
 Phe Tyr Gly Met Leu Leu Gly Tyr Ala Asn Ala Thr Gln Arg Gly Leu  
 225 230 235 240  
 Asp Phe Leu Asp Phe Leu Asp Asp Glu Leu Thr Tyr Lys Thr Leu Phe  
 245 250 255  
 Val Pro Val Asn Glu Gly Phe Val Asp Asn Met Thr Leu Ser Gly Pro  
 260 265 270  
 Asp Leu Glu Leu His Ala Ser Asn Ala Thr Leu Leu Ser Ala Asn Ala  
 275 280 285  
 Ser Gln Gly Lys Leu Leu Pro Ala His Ser Gly Leu Ser Leu Ile Ile  
 290 295 300  
 Ser Asp Ala Gly Pro Asp Asn Ser Ser Trp Ala Pro Val Ala Pro Gly  
 305 310 315 320  
 Thr Val Val Val Ser Arg Ile Ile Val Trp Asp Ile Met Ala Phe Asn  
 325 330 335  
 Gly Ile Ile His Ala Leu Ala Ser Pro Leu Leu Ala Pro Pro Gln Pro  
 340 345 350  
 Gln Ala Val Leu Ala Pro Glu Ala Pro Pro Val Ala Ala Gly Val Gly  
 355 360 365  
 Ala Val Leu Ala Ala Gly Ala Leu Leu Gly Leu Val Ala Gly Ala Leu  
 370 375 380  
 Tyr Leu Arg Ala Arg Gly Lys Pro Met Gly Phe Gly Phe Ser Ala Phe  
 385 390 395 400  
 Gln Ala Glu Asp Asp Ala Asp Asp Asp Phe Ser Pro Trp Gln Glu Gly  
 405 410 415  
 Thr Asn Pro Thr Leu Val Ser Val Pro Asn Pro Val Phe Gly Ser Asp  
 420 425 430  
 Thr Phe Cys Glu Pro Phe Asp Asp Ser Leu Leu Glu Glu Asp Phe Pro  
 435 440 445  
 Asp Thr Gln Arg Ile Leu Thr Val Lys  
 450 455

&lt;210&gt; 109

&lt;211&gt; 103

&lt;212&gt; PRT

<213> Homo sapiens

<400> 109

Met Gly Ser Trp Cys Leu Arg Gly Gly Ala Val Glu Glu Pro Ala Leu  
1 5 10 15

Gln Ser Arg Glu Met Gly Tyr Ile Pro Val Leu Leu Pro Ser Ile Gly  
20 25 30

Leu Glu Val Ser Gln Leu Leu Ala Gly Ala Gly Asp Ile Arg Asp Pro  
35 40 45

Pro Asn Gln Glu Ile Pro His Gln Leu Phe Ser Arg Asp Val Ala Asn  
50 55 60

Pro Ile Cys Arg Asp Phe Ile Thr Arg Glu Thr Leu Ser Thr Glu Ile  
65 70 75 80

Leu Met Ile Asp Ile Leu Leu Thr Arg Ser Ser Pro Leu Thr Phe Cys  
85 90 95

Leu Tyr Arg Asp Ala Phe Asp  
100

<210> 110

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 110

Met Gly Gly Thr Glu Ser Tyr Ile Ser Ser Ser Pro Leu Leu Arg Thr  
1 5 10 15

Leu Leu Leu Ser Tyr Leu Val Phe Leu Tyr Tyr Leu Tyr Leu Leu Phe  
20 25 30

Tyr Val Ala Arg Ser Pro Phe Gly Lys Ala Glu Tyr Lys Xaa  
35 40 45

<210> 111

<211> 210

<212> PRT

<213> Homo sapiens

<400> 111

Met Ala Ser Leu Leu Gln Gln Ile Glu Ile Glu Arg Ser Leu Tyr Ser  
1 5 10 15

Asp His Glu Leu Arg Ala Leu Asp Glu Asn Gln Arg Leu Ala Lys Lys  
20 25 30

Lys Ala Asp Leu His Asp Glu Glu Asp Glu Gln Asp Ile Leu Leu Ala  
           35                          40                          45  
 Gln Asp Leu Glu Asp Met Trp Glu Gln Lys Phe Leu Gln Phe Lys Leu  
           50                          55                          60  
 Gly Ala Arg Ile Thr Glu Ala Asp Glu Lys Asn Asp Arg Thr Ser Leu  
           65                          70                          75                          80  
 Asn Arg Lys Leu Asp Arg Asn Leu Val Leu Leu Val Arg Glu Lys Phe  
                           85                          90                          95  
 Gly Asp Gln Asp Val Trp Ile Leu Pro Gln Ala Glu Trp Gln Pro Gly  
                           100                          105                          110  
 Glu Thr Leu Arg Gly Thr Ala Glu Arg Thr Leu Ala Thr Leu Ser Glu  
           115                          120                          125  
 Asn Asn Met Glu Ala Lys Phe Leu Gly Asn Ala Pro Cys Gly His Tyr  
           130                          135                          140  
 Thr Phe Lys Phe Pro Gln Ala Met Arg Thr Glu Ser Asn Leu Gly Ala  
           145                          150                          155                          160  
 Lys Val Phe Phe Phe Lys Ala Leu Leu Leu Thr Gly Asp Phe Ser Gln  
                           165                          170                          175  
 Ala Gly Asn Lys Gly His His Val Trp Val Thr Lys Asp Glu Leu Gly  
                           180                          185                          190  
 Asp Tyr Leu Lys Pro Lys Tyr Leu Ala Gln Val Arg Arg Phe Val Ser  
           195                          200                          205  
 Asp Leu  
           210

<210> 112

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals stop translation

<400> 112

Met Val Leu Thr Gly Val Arg Leu Met Lys Trp Arg Asp Glu Lys Thr  
           1                          5                          10                          15

Phe Gly Thr Asp Cys Val Glu Ala Val Ile Leu Leu Val Thr Leu Leu  
           20                          25                          30

Trp Glu Lys Lys Glu Ala Phe His Val Gly Phe Ser Glu Glu Leu Gln  
           35                          40                          45

Tyr Phe Pro Glu Arg Ser Thr Glu Lys Leu Lys Val Phe Glu Trp Glu

50                      55                      60

Glu Glu Lys Gln Thr Thr Ala Thr Ser Glu Asp Asn Thr Lys His Leu  
65                      70                      75                      80

Val His Ser Val Tyr Thr Arg Gly Ala Val Asn Phe Leu Val Glu Lys  
85                      90                      95

Glu Leu Ser Leu Glu Lys Tyr Leu Lys Lys Pro Leu Lys Xaa  
100                      105                      110

<210> 113  
<211> 61  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals stop translation

<400> 113  
Met Ala Ala Val Met Leu Val Leu Thr Val Val Leu Gly Leu Tyr Asn  
1                      5                      10                      15

Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser  
20                      25                      30

Thr Cys Ser Ala Ala Pro Gly Thr Pro Gly Gly Ala Gln Asp Ser Ser  
35                      40                      45

Met Ser Ser Leu Gln Ser Ser Arg Lys Pro His Thr Xaa  
50                      55                      60

<210> 114  
<211> 135  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (135)  
<223> Xaa equals stop translation

<400> 114  
Met Val Glu Asn Ser Pro Ser Pro Leu Pro Glu Arg Ala Ile Tyr Gly  
1                      5                      10                      15

Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr Leu Val  
20                      25                      30

Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser Leu Gly Leu Thr Tyr  
35                      40                      45

Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro Val Tyr Leu Leu Ile  
50                      55                      60



Ala Ile Val Ile Gly Tyr Val Leu Leu Phe Gly Ile Asn Met Met Ser  
65 70 75 80

Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp Asn Tyr Ala Lys  
85 90 95

Asn Gln Gln Gln Lys Lys Tyr Gln Glu Glu Ala Ile Pro Ala Leu Arg  
100 105 110

Asp Ile Ser Ile Ser Glu Val Asn Gln Met Phe Phe Leu Ala Ala Lys  
115 120 125

Glu Leu Tyr Thr Lys Asn Xaa  
130 135

<210> 115

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals stop translation

<400> 115

Met Arg Leu Gln Pro Asp Ile Cys Asn Leu Pro Thr Asn Pro Leu Ser  
1 5 10 15

Leu Lys Leu Gly Leu Met Leu Leu Ser Leu Thr Leu Cys Leu Glu Lys  
20 25 30

Thr Val Gln Gly Leu Lys Leu Gly Leu Cys Leu Phe Lys Leu Ser Phe  
35 40 45

Ser Glu His Met Val Cys Pro Thr His Pro Gln Ser Ile Arg Trp Phe  
50 55 60

Tyr Phe Met Phe Arg Leu Gln Cys Cys Xaa  
65 70

<210> 116

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals stop translation

<400> 116

Met Ala Ala Gly Trp Val Arg Ser Trp Val Val Tyr Phe Leu Val Thr  
1 5 10 15

Leu Leu Gly Ser Ser Pro Ser Pro Val Ser Leu Thr Glu Gly Lys Lys  
                   20                  25                  30

Ile Pro Lys Gly Thr Ala Thr Val Leu Gly Gly Ala Leu Asp Cys Val  
                   35                  40                  45

His Leu Asn Phe Gly Pro Ser Phe Asp Val Trp Phe Val Ser His Lys  
                   50                  55                  60

Glu Lys Tyr Leu Lys Val Asn Met Met Leu Leu Ala Tyr Tyr Pro Asp  
                   65                  70                  75                  80

Tyr Cys Met Lys Leu Cys Leu Xaa  
                                   85

<210> 117

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals stop translation

<400> 117

Met Leu Tyr Ile Leu Leu Lys Pro Leu Leu Cys Leu Ser Val Asn Cys  
                   1                  5                  10                  15

Thr Asn Ile Tyr Gln Met Leu Thr Lys Ser Gln Gly Leu Asp Leu Ala  
                   20                  25                  30

Leu Gly Arg Asn Xaa  
                                   35

<210> 118

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals stop translation

<400> 118

Met Trp Trp Trp Leu Met Leu Ala Thr Thr Ala Leu Lys Pro Ile Ala  
                   1                  5                  10                  15

Thr Ser Ser Ser Cys Thr Glu Ala Leu Pro Gly Leu Trp Arg Asp Arg  
                   20                  25                  30

His Trp Gly Asp Trp Thr Arg Gly Ser Gly Trp Glu Val Gly Gln Thr  
                   35                  40                  45

Trp Gln His Xaa

50

<210> 119  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals stop translation

<400> 119  
 Met Gly Ser Trp Phe Tyr Leu Phe Leu Ala Pro Leu Phe Lys Gly Leu  
           1                  5                  10                  15  
 Ala Gly Ser Leu Pro Phe Gly Cys Leu Ser Leu Leu Gln Pro Thr Glu  
                   20                  25                  30  
 Lys Thr Ala Leu Gln Ser Gly Gly Ser Ser Xaa  
                   35                  40

<210> 120  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 120  
 Met Gly Pro Lys Ser Gln Thr Glu Arg Thr Ser Ser Leu Met Pro His  
           1                  5                  10                  15  
 Gln Val Arg Glu Arg Arg Ala His Ile Pro Gln Met Pro Met Asn Thr  
                   20                  25                  30

<210> 121  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals stop translation

<400> 121  
 Met Phe Lys Asp Phe Ile Phe Leu Thr Phe Leu Pro Lys Leu Ser Gln  
           1                  5                  10                  15  
 Phe Val Lys Gly Ser Leu Ile Ser Gly Leu Ser Glu Cys Asp Asn Thr  
                   20                  25                  30  
 Ser Leu Lys Ala Ile Leu Gly Phe Ser Asn Tyr Ser Gln Xaa

35

40

45

<210> 122  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 122

Met Ala Lys Val Ala Lys Asp Leu Asn Pro Gly Val Lys Lys Met Ser  
 1 5 10 15

Leu Gly Gln Leu Gln Ser Ala Arg Gly Val Ala Cys Leu Gly Cys Lys  
 20 25 30

Gly Thr Cys Ser Gly Phe Glu Pro His Ser Trp Arg Lys Ile Cys Lys  
 35 40 45

Ser Cys Lys Cys Ser Gln Glu Asp His Cys Leu Thr Ser Asp Leu Glu  
 50 55 60

Asp Asp Arg Lys Ile Gly Arg Leu Leu Met Asp Ser Lys Tyr Ser Thr  
 65 70 75 80

Leu Thr Ala Arg Val Lys Gly Gly Asp Gly Ile Arg Ile Tyr Lys Arg  
 85 90 95

Asn Arg Met Ile Met Thr Asn Pro Ile Ala Thr Gly Lys Asp Pro Thr  
 100 105 110

Phe Asp Thr Ile Thr Tyr Glu Trp Ala Pro Pro Gly Val Thr Gln Lys  
 115 120 125

Leu Gly Leu Gln Tyr Met Glu Leu Ile Pro Lys Glu Lys Gln Pro Val  
 130 135 140

Thr Gly Thr Glu Gly Ala Phe Thr Ala Ala Ala Ser Ser Cys Thr Ser  
 145 150 155 160

Ser Pro Ser Met Thr Arg Ile Pro Arg Ala Ala Val Asp Phe Trp Arg  
 165 170 175

Met Ser

<210> 123  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 123

Met Gly Ile Met Leu Leu Ser Tyr Ser Asn Gly Thr Val Leu Phe Ile

1                      5                      10                      15  
 Phe Val Pro Gln Ile Thr Ser Ser Val Leu Ser Val Phe Cys Ile Val  
                     20                      25                      30

Phe Val Gln Asp Ser Leu Gly Phe Ile Ser Val Ile Ser Ala Phe Xaa  
                     35                      40                      45

<210> 124  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals stop translation

<400> 124  
 Met Lys Leu Leu Leu Leu Thr Leu Thr Val Leu Leu Leu Leu Ser Gln  
                     1                      5                      10                      15

Leu Thr Pro Gly Gly Thr Gln Arg Cys Trp Asn Leu Tyr Gly Lys Cys  
                     20                      25                      30

Arg Tyr Arg Cys Ser Lys Lys Glu Arg Val Tyr Val Tyr Cys Ile Asn  
                     35                      40                      45

Asn Lys Met Cys Cys Val Lys Pro Lys Tyr Gln Pro Lys Glu Arg Trp  
                     50                      55                      60

Trp Pro Phe Xaa  
                     65

<210> 125  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals stop translation

<400> 125  
 Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys Leu Ala Val Pro  
                     1                      5                      10                      15

Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu Phe His Ser Cys  
                     20                      25                      30

Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp Arg Glu Phe Tyr  
                     35                      40                      45

Arg Asp Trp Trp Asn Ser Glu Ser Val Thr Tyr Phe Trp Gln Asn Trp  
 50 55 60

Asn Ile Pro Val His Lys Trp Cys Ile Arg Xaa  
 65 70 75

<210> 126

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals stop translation

<400> 126

Met Thr Lys Glu Asp Lys Ala Ser Ser Glu Ser Leu Arg Leu Ile Leu  
 1 5 10 15

Val Val Phe Leu Gly Gly Cys Thr Phe Ser Glu Ile Ser Ala Leu Arg  
 20 25 30

Phe Leu Gly Arg Glu Lys Gly Tyr Arg Phe Ile Phe Leu Thr Thr Ala  
 35 40 45

Val Thr Asn Ser Ala Arg Leu Met Glu Ala Met Ser Glu Val Lys Ala  
 50 55 60

Xaa

65

<210> 127

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 127

Met Leu Leu Tyr Tyr Ser Val Met Thr Leu Ser Ser Leu Gly Gln Asp  
 1 5 10 15

Pro Ser Leu Pro Thr Phe Ala Asp Arg His Ser Gly Met Trp Arg Gln  
 20 25 30

Gln Cys Val Pro Xaa Thr Phe Leu Tyr Pro Pro Ala Val Gly Ser Thr

35

40

45

Gln Trp Lys Gly Asp Met Thr Leu Ile Leu Leu Phe Xaa  
 50 55 60

&lt;210&gt; 128

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

Met Ser Lys Arg Phe Thr Leu Asp Tyr Leu Phe Leu Ser Glu Ile Val  
 1 5 10 15

Leu Cys Leu Phe Tyr Tyr Leu Leu Leu Ile Arg Ala Leu Ala Leu  
 20 25 30

&lt;210&gt; 129

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 129

Met Gln Ile Ile Phe Leu Ala Val Thr Cys Ser Phe Thr Thr Ala Glu  
 1 5 10 15

Ser Ala Val Ala Arg Xaa  
 20

&lt;210&gt; 130

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 130

Met Gly Phe Ser His Arg Ser Pro Pro Val Ala His Pro Arg Ala Arg  
 1 5 10 15

Asn Arg Arg Ser Gln Glu Val Val Thr Glu Leu Gly Pro Cys Leu Leu  
 20 25 30

Leu Cys Thr Leu Leu Val Gln Thr Gly Val Val Gly Ser Gln Ala Leu  
 35 40 45

Xaa

<210> 131  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals stop translation

<400> 131  
 Met Val Gly Ser Ala Met Met Gly Gly Ile Leu Leu Ala Leu Ile Glu  
           1                  5                  10                  15  
 Gly Val Gly Ile Leu Leu Thr Arg Tyr Thr Ala Gln Gln Phe Arg Asn  
                   20                  25                  30  
 Ala Pro Pro Phe Leu Glu Asp Pro Ser Gln Leu Pro Pro Lys Asp Gly  
           35                  40                  45  
 Thr Pro Ala Pro Gly Tyr Pro Ser Tyr Gln Gln Tyr His Xaa  
           50                  55                  60

<210> 132  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Met Pro Gly Leu Ser Ala Ala Leu Thr Asp Cys Ser Ser Leu Pro His  
           1                  5                  10                  15  
 Gly Phe Pro Phe Phe Leu Glu Tyr Leu Phe Phe Arg Gly Asn Met Gln  
                   20                  25                  30  
 Leu Gly Leu Lys Thr Phe Pro Pro Ile Ser Pro Thr Gln Pro Arg Leu  
           35                  40                  45  
 Gly Phe Ser Gly Glu Leu Arg Ser Leu Ser Val Phe Ile Phe His Pro  
           50                  55                  60  
 Phe Ile Val Thr Ser Phe Val Ile Leu Phe Phe Phe Gly Gly Asp Gly  
           65                  70                  75                  80  
 Val Ile Val Asn Leu Ile Ser Val Ser Tyr Leu Phe Ala Ser Pro Pro  
                   85                  90                  95  
 Ser Pro Pro His Glu Leu Leu Pro Ser Arg Gly Leu Ala Gln Leu Ala  
           100                  105                  110  
 Leu Gly Thr Arg Glu Arg Thr Asp Ser Gly Pro Pro Gln Leu Ser Pro  
           115                  120                  125  
 Pro Ser Leu Trp Lys Gly Gly Trp Gly Ser Gly Ala Ser Ser Trp Ala



130

135

140

Leu Cys Glu Ala Trp Pro Pro Leu Pro Thr Leu Ala Leu Asp Cys Tyr  
 145 150 155 160

Ser

&lt;210&gt; 133

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

Met Gly Gln Ser Phe Ser Leu Tyr Met Ile Phe Gln Ile Phe Thr Thr  
 1 5 10 15

Phe Leu Val Pro Leu Asp Ala Arg His Cys Leu Leu Glu Thr His Trp  
 20 25 30

Tyr Val Thr Ala Gly Phe Thr Met Glu Pro His Ile His Met Ser Trp  
 35 40 45

Asn

&lt;210&gt; 134

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 134

Met Trp Gln His Cys Phe Val Ile Leu Phe Val Gln Val Met His Thr  
 1 5 10 15

Val Leu Ile Lys Gly Ser Asn Lys Tyr Trp Gly Leu Phe Phe Phe Phe  
 20 25 30

Pro Gln Gly Ile Leu Xaa  
 35

&lt;210&gt; 135

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 135

Met Tyr Thr Phe Ile Cys Thr Trp Leu Trp Arg Asp Lys Leu Ile His  
 1 5 10 15

Ile Gly Leu Gln Ile Ser Leu Thr Gly Arg Arg Ala Gln Lys Asn Asn  
                   20                  25                  30

Ile Phe Leu His Phe Phe Gly Ser Ile Leu Lys Asn Lys Lys Gly Thr  
                   35                  40                  45

Pro Lys Gly Ser Leu Val Thr Pro Leu Leu Gly Phe Leu Ile Thr Asn  
                   50                  55                  60

Ile Ile Phe Thr Cys Lys Val Asn Gly Pro Leu Ile Ser  
                   65                  70                  75

<210> 136

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals stop translation

<400> 136

Met Glu Gly Leu Met Leu Pro Leu Leu Ser Val Ile Tyr Ser Glu Gly  
                   1                  5                  10                  15

Thr Val Trp Glu Glu Ile Ile Val Ser Gly Arg Gln Tyr Tyr Xaa  
                   20                  25                  30

<210> 137

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals stop translation

<400> 137

Met Cys Gly Val Thr Tyr Ala Trp Tyr Met Pro Leu Leu Leu Leu Lys  
                   1                  5                  10                  15

Phe Tyr Ser Leu Leu Leu Ala Gln Val Leu Leu Asn Pro Phe Leu Met  
                   20                  25                  30

Cys Thr Gly Trp Arg Lys Asn Tyr Ser Gln His Phe Glu Arg Lys Val  
                   35                  40                  45

Phe Arg Asn Asn Ile Asn Trp His Tyr Xaa  
                   50                  55

<210> 138

<211> 40

<212> PRT

<213> Homo sapiens

<400> 138

Met Phe Ile Phe Arg Asp Gly Leu Thr Met Phe Ser Arg Leu Val Ser  
1 5 10 15

Asn Ser Cys Pro Gln Val Ile Leu Pro Ser Trp Pro Pro Glu Ser Leu  
20 25 30

Gly Gly Ser Gly Arg Arg Ile Ser  
35 40

<210> 139

<211> 47

<212> PRT

<213> Homo sapiens

<400> 139

Met Ser Trp Gly Tyr Phe Leu Gly Ala Ser Val Leu Leu Gln Asn Phe  
1 5 10 15

Phe Ser Ser Tyr Leu Leu Thr Pro Ser Gly Lys Ile Ile Glu Glu Val  
20 25 30

Thr Val Val Lys Ala Ser Val Asn Ser Ile Ser Lys Asn Phe Met  
35 40 45

<210> 140

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals stop translation

<400> 140

Met Pro Gly Ile Phe Ile Leu Phe Met Thr Leu Ala Ser Thr Phe Asp  
1 5 10 15

Gln Arg Leu Leu Asn Asp Ser Gln Pro Lys Asp His Ser Xaa  
20 25 30

<210> 141

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 141

Met Ala Trp Val Thr Ser Tyr Gly Pro Leu Glu Asp Glu Ser Asn Pro  
 1 5 10 15

Ser His Trp Phe Phe Phe Ala Asn Ser Phe Ala Phe Ile Phe Leu Ile  
 20 25 30

Thr Ile Asn Ser Ile Phe His Val Leu Arg Ala Pro Gly Xaa  
 35 40 45

<210> 142

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 142

Met Asn Gln Arg Tyr Arg His Lys Ile Lys Asn Tyr Lys Thr Ile His  
 1 5 10 15

Tyr Ala Tyr Asp Ser Cys Asn Asn Lys Lys Val Gln Gly Thr Ile Ile  
 20 25 30

Ser Tyr Asn Arg Gly Ile Thr Ser His Arg Glu Gln Gln Tyr His Ile  
 35 40 45

Ala Gly Ile Tyr Thr Arg Ile Leu Gly Asn Leu Val Trp Ile Tyr Thr  
 50 55 60

Arg Ile Pro Gly Asp Pro Val Trp Leu Val Arg Gly Phe Pro Glu Lys  
 65 70 75 80

Xaa Ile Ser Glu Ser  
 85

<210> 143

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 143

Met Lys Asn Met His Val Tyr Leu Asn Tyr Asn Asn Phe Leu Leu Xaa  
 1 5 10 15

Leu Leu Arg Leu Met Leu Asn Ile Cys Ser Phe Thr Gln Pro Leu Val  
 20 25 30

Ala Glu Glu Glu Arg Pro Leu Thr Pro Leu

35

40

&lt;210&gt; 144

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

Met Asp Glu Glu Arg Glu Ile Ile Ser His Gly Glu Phe Cys Asn Val  
 1 5 10 15

Ser Arg Glu Arg Asp Trp Val Gly Arg Gln Ala Ser Gln Phe Val Lys  
 20 25 30

Cys Lys Gly Thr Thr His Arg Thr Leu Ser Leu Thr Arg Ala Val Ser  
 35 40 45

Tyr Val Val Leu Ser Pro Leu Ala Lys Asp Leu Pro Leu Leu Ala Ser  
 50 55 60

Asp  
 65

&lt;210&gt; 145

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

Met Ala Ala Gly Val Asp Cys Gly Asp Gly Val Gly Ala Arg Gln His  
 1 5 10 15

Val Phe Leu Val Ser Glu Tyr Leu Lys Asp Ala Ser Lys Lys Met Lys  
 20 25 30

Asn Gly Leu Met Phe Val Lys Leu Val Asn Pro Cys Ser Gly Glu Gly  
 35 40 45

Ala Ile Tyr Leu Phe Asn Met Cys Leu Gln Gln Leu Phe Glu Val Lys  
 50 55 60

Val Phe Lys Glu Lys His His Ser Trp Phe Ile Asn Gln Ser Val Gln  
 65 70 75 80

Ser Gly Gly Leu Leu His Phe Ala Thr Pro Val Asp Pro Leu Phe Leu  
 85 90 95

Leu Leu His Tyr Leu Ile Lys Ala Asp Lys Glu Gly Lys Phe Gln Pro  
 100 105 110

Leu Asp Gln Val Val Val Asp Asn Val Phe Pro Asn Cys Ile Leu Leu  
 115 120 125

Leu Lys Leu Pro Gly Leu Glu Lys Leu Leu His His Val Thr Glu Glu  
 130 135 140

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Lys Gly Asn Pro Glu Ile Asp Asn Lys Lys Tyr Tyr Lys Tyr Ser Lys  
145 150 155 160

Glu Lys Thr Leu Lys Trp Leu Glu Lys Lys Val Asn Gln Thr Val Ala  
165 170 175

Ala Leu Lys Thr Asn Asn Val Asn Val Ser Ser Arg Val Gln Ser Thr  
180 185 190

Ala Phe Phe Ser Gly Asp Gln Ala Ser Thr Asp Lys Glu Glu Asp Tyr  
195 200 205

Ile Arg Tyr Ala His Gly Leu Ile Ser Asp Tyr Ile Pro Lys Glu Leu  
210 215 220

Ser Asp Asp Leu Ser Lys Tyr Leu Lys Leu Pro Glu Pro Ser Ala Ser  
225 230 235 240

Leu Pro Asn Pro Pro Ser Lys Lys Ile Lys Leu Ser Asp Glu Pro Val  
245 250 255

Glu Ala Lys Glu Asp Tyr Thr Lys Phe Asn Thr Lys Asp Leu Lys Thr  
260 265 270

Glu Lys Lys Asn Ser Lys Met Thr Ala Ala Gln Lys Ala Leu Ala Lys  
275 280 285

Val Asp Lys Ser Gly Met Lys Ser Ile Asp Thr Phe Phe Gly Val Lys  
290 295 300

Asn Lys Lys Lys Ile Gly Lys Val  
305 310

<210> 146

<211> 58

<212> PRT

<213> Homo sapiens

<400> 146

Met Asp Lys Asn Val Thr Arg Ser Arg Thr Ile Lys Leu Val Gln Ala  
1 5 10 15

Ser Trp Thr Pro Pro Phe Gln Leu Pro Ala Phe Cys Leu Met Pro Val  
20 25 30

Cys Gln Trp Leu Glu Leu Gly Leu Leu Phe Arg Thr Ser Val Ala Ile  
35 40 45

Leu Ile Leu Pro Trp Gly His Asn Cys Pro  
50 55

<210> 147

<211> 63

<212> PRT

<213> Homo sapiens

&lt;400&gt; 147

Met Gly Gln Thr Glu Ala Met Gln Glu Glu Met Arg Thr Arg Thr Cys  
 1 5 10 15

Thr Thr Thr Pro Gln Pro Met Glu Thr Ile Arg Gln Asn Lys Thr Arg  
 20 25 30

Arg His Met Thr Arg Lys Gln Ala Trp Thr Leu Gln Lys Cys Gln Cys  
 35 40 45

His Glu Arg Gln Lys Leu Gly Met Leu Phe Trp Ile Lys Gly Asp  
 50 55 60

&lt;210&gt; 148

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 148

Met Tyr Leu Ile His Leu Tyr Gln Val Leu Lys Tyr Leu Asp Lys Ser  
 1 5 10 15

Lys Tyr Phe Val Phe Ser Phe Phe Leu Leu Ser Ile Leu Leu Thr Thr  
 20 25 30

Val Lys Arg Cys Ser Ile Leu Ile Trp Ser Val Leu Arg Arg Lys Thr  
 35 40 45

Met Lys Ala Glu Leu Val Cys Ala Thr Gln Ser Lys Pro Leu Leu Phe  
 50 55 60

Phe Trp Lys Asp Gly Val Met Phe Phe Lys Asp Ser Asn Lys Tyr Pro  
 65 70 75 80

Ala Val Ile Ser Xaa  
 85

&lt;210&gt; 149

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 149

Met Thr Ser Tyr Ile Ile Asn Leu Ser Phe Phe Leu Pro Leu Ala Thr  
 1 5 10 15

Arg Lys Val Ser Ala Lys Pro Cys Gly Xaa  
           20                          25

<210> 150  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals stop translation

<400> 150  
 Met Leu Pro Leu Met Thr Tyr Ile Ile Gln Tyr Ile Tyr Thr Tyr Ile  
       1                          5                          10                          15

Xaa Xaa Val Arg Val Leu Ala Ile Leu Phe Leu Arg Arg Val Leu Ser  
                           20                          25                          30

Gln Thr Leu Leu His Ala Val Tyr Gly Val Ser Cys Val Leu Ile Phe  
           35                          40                          45

Xaa

<210> 151  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 151  
 Met Val Cys Gly Val Phe Cys Cys Leu Pro Leu Glu Val Leu Pro Phe  
       1                          5                          10                          15

Ser Arg Pro Ile Asn Val Leu Trp Leu Leu Asn Tyr Ser Ser Thr Leu  
           20                          25                          30

Gln Cys Thr Gly Phe Pro Pro Gly Val Asn Thr Asn Gly Gly His Leu  
           35                          40                          45

Leu Val Phe Leu Glu Val Leu Gly Glu Phe Ser Asp Leu Trp Leu  
       50                          55                          60

<210> 152



<211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals stop translation

<400> 152  
 Met Ser Ser Gly Leu Phe Leu Val Leu Phe Cys Phe Leu Cys Val Phe  
           1                          5                          10                          15

Val Gly Phe Phe Asp Phe His Cys Trp Cys Asp Ile Leu Val Lys Ser  
                           20                          25                          30

Ser Xaa

<210> 153  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (211)  
 <223> Xaa equals stop translation

<400> 153  
 Met Arg Cys Leu Thr Thr Pro Met Leu Leu Arg Ala Leu Ala Gln Ala  
           1                          5                          10                          15

Ala Arg Ala Gly Pro Pro Gly Gly Arg Ser Leu His Ser Ser Ala Val  
                           20                          25                          30

Ala Ala Thr Tyr Lys Tyr Val Asn Met Gln Asp Pro Glu Met Asp Met  
           35                          40                          45

Lys Ser Val Thr Asp Arg Ala Ala Arg Thr Leu Leu Trp Thr Glu Leu  
           50                          55                          60

Phe Arg Gly Leu Gly Met Thr Leu Ser Tyr Leu Phe Arg Glu Pro Ala  
           65                          70                          75                          80

Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser Pro Arg Phe Arg  
                           85                          90                          95

Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu Glu Arg Cys Ile  
           100                          105                          110

Ala Cys Lys Leu Cys Glu Ala Ile Cys Pro Ala Gln Ala Ile Xaa Ile

115                      120                      125  
 Glu Ala Glu Pro Arg Ala Asp Gly Ser Arg Arg Thr Thr Arg Tyr Asp  
 130                      135                      140  
 Ile Asp Met Thr Lys Cys Ile Tyr Cys Gly Phe Cys Gln Glu Ala Cys  
 145                      150                      155                      160  
 Pro Val Asp Ala Ile Val Glu Gly Pro Asn Phe Glu Phe Ser Thr Glu  
 165                      170                      175  
 Thr His Glu Glu Leu Leu Tyr Asn Lys Glu Lys Leu Leu Asn Asn Gly  
 180                      185                      190  
 Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp Tyr Leu  
 195                      200                      205  
 Tyr Arg Xaa  
 210

<210> 154

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals stop translation

<400> 154

Met Leu Pro Gly Leu Arg Arg Leu Leu Gln Ala Pro Ala Ser Ala Cys  
 1                      5                      10                      15

Leu Leu Leu Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro  
 20                      25                      30

Met Leu Cys Thr Cys Tyr Ser Ser Pro Pro Thr Val Lys Leu Pro Gly  
 35                      40                      45

Gln Gln Leu Leu Leu Cys Ala Ala Val Pro Ala Thr Gln His Ser Ala  
 50                      55                      60

Thr Leu Pro Ala Glu Gln Pro His Pro His Ala Ala Xaa Arg His Leu  
 65                      70                      75                      80

Trp Val Gln Pro Ala His Pro Val Ala Leu Leu Gln Gln Pro Leu His  
 85                      90                      95

His Leu Pro Gly His Phe Pro Pro Leu Ala Ser Pro Gly Gly Ser Gly  
 100                      105                      110

<211> 114

<212> PRT  
<213> Homo sapiens

<400> 156

Met	His	Gln	Val	Ser	Thr	Cys	Phe	Gly	Pro	Gly	Arg	Gly	Leu	Ala	Leu
1				5					10					15	
Thr	Phe	Met	Thr	Leu	His	Ser	Phe	Arg	Glu	Ala	Ile	Thr	Leu	Asp	Cys
			20					25					30		
Asn	Thr	Asn	Asp	Arg	Arg	Pro	Ser	Gly	Gln	Arg	Pro	Pro	Arg	Pro	Ser
		35					40				45				
Ala	Pro	Gln	Arg	Arg	Gly	Pro	Arg	Gly	Arg	Arg	Cys	Pro	Ser	Cys	Ser
	50					55					60				
Pro	Cys	Ala	Leu	Ser	Leu	Thr	Ser	Pro	Gly	Ser	Cys	Leu	Leu	Lys	Thr
	65				70					75				80	
Pro	Val	Phe	Thr	Pro	Tyr	Lys	Ala	Ser	Ser	Glu	Gln	Thr	Gly	Arg	Pro
				85					90					95	
Leu	Val	Glu	Pro	Ala	His	Pro	Val	Pro	Ser	Ala	Trp	Arg	Pro	Gly	Pro
			100					105					110		

Arg Ala

<210> 157  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 157

Met	Ser	Arg	Thr	Asn	Thr	Trp	Val	Ser	Trp	Gln	Ala	Ser	Arg	Ala	Asp
1				5					10					15	
Trp	Pro	Glu	Thr	Asp	Pro	Gln	Glu	Ala	Leu	Gln	Pro	Ala	Leu	Val	Pro
		20					25						30		
Ser	His	Ser	Asp	Leu	Asn	Pro	Gly	Ser	Ser	Arg	Ser	Ala	Val		
		35					40					45			

<210> 158  
<211> 36  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals stop translation

<400> 158

Met	Leu	Phe	Gln	Cys	Gln	Val	Leu	Leu	Ser	Ile	Phe	Ser	Phe	Leu	Glu
1				5					10					15	

Pro Val Leu Ser Ser Gly Ser Ser Arg Leu Val Phe Tyr Asn Leu Ser  
                   20                  25                  30

Asn Ile Met Xaa  
                   35

<210> 159  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals stop translation

<400> 159  
 Met Val Phe Ser Ala Lys Ile Gly Val Arg Tyr Phe Leu Val Leu Ser  
       1                  5                  10                  15

Cys Leu Pro Asn Cys Cys Leu Pro Ala Asp Trp Trp His Ala Gln Trp  
                   20                  25                  30

Leu Trp Gly Gln Gly Xaa  
                   35

<210> 160  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals stop translation

<400> 160  
 Met Tyr Phe Ser Leu Leu Val Leu Leu Phe Ser Pro Ser Val Leu Phe  
       1                  5                  10                  15

Leu Ala Arg Lys Lys Cys Thr Arg Asn Asn Thr Leu Asn Xaa  
                   20                  25                  30

<210> 161  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals stop translation

<400> 161

Met Val Lys Leu Ser Lys Glu Ala Lys Gln Arg Leu Gln Gln Leu Phe  
 1 5 10 15  
 Lys Gly Ser Gln Phe Ala Ile Arg Trp Gly Phe Ile Pro Leu Val Ile  
 20 25 30  
 Tyr Leu Gly Phe Lys Arg Gly Ala Asp Pro Gly Met Pro Glu Pro Thr  
 35 40 45  
 Val Leu Ser Leu Leu Trp Gly Xaa  
 50 55

<210> 162  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals stop translation

<400> 162  
 Met Leu Gly Phe Ala Phe Arg Asp Lys Arg Trp Trp Ile Tyr Phe Ala  
 1 5 10 15  
 Cys Ser Lys Asp Ser Gln Gly Val Arg Ala Ala Tyr Cys Gln Ile Leu  
 20 25 30  
 Leu Leu Phe Tyr Val Ser Val Tyr Ser Leu Ser Phe Ser Tyr Leu Leu  
 35 40 45  
 Asp His Phe Cys Ser Leu Pro Lys Pro Leu Leu Phe Gly Thr Val Ser  
 50 55 60  
 Gln Ile Pro His Phe Xaa  
 65 70

<210> 163  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals stop translation

<400> 163  
 Met Cys Ser Tyr Cys Met Pro Tyr Leu Ile Ile Phe Leu Ser Val Ile  
 1 5 10 15  
 His Asn His Lys Thr Ile Pro Leu Leu Lys Val Leu Val Asp Lys Leu  
 20 25 30  
 Asn Cys Ile Ile Thr Asp Leu Cys Ile Ser Arg Asp Asp Val Phe Pro

35

40

45

Thr Thr Cys Xaa  
50

&lt;210&gt; 164

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 164

Met	Cys	Ala	Asp	Asp	Leu	Leu	Ser	Val	Leu	Leu	Tyr	Leu	Leu	Val	Lys
1				5					10					15	

Thr	Glu	Ile	Pro	Asn	Trp	Met	Ala	Asn	Leu	Ser	Tyr	Ile	Lys	Asn	Phe
	20							25					30		

Arg	Phe	Ser	Ser	Leu	Ala	Lys	Asp	Glu	Leu	Gly	Ile	Leu	Pro	Asp	Leu
	35					40						45			

Ile	Arg	Xaa	Cys	Pro	Leu	Asn	Ile	Arg	Gln	Gly	Ser	Leu	Ser	Ala	Lys
50						55					60				

Pro	Pro	Glu	Ser	Glu	Gly	Phe	Gly	Asp	Arg	Leu	Phe	Leu	Lys	Gln	Arg
65					70					75				80	

Met	Ser	Leu	Leu	Ser	Gln	Met	Thr	Ser	Ser	Pro	Thr	Asp	Cys	Leu	Phe
				85					90					95	

Lys	Ala	Asp	Ala	Leu	Leu	Glu	Xaa
							100

&lt;210&gt; 165

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 165

Met	Ala	Arg	Ile	Thr	Gly	Pro	Pro	Glu	Arg	Asp	Asp	Pro	Tyr	Pro	Val
1				5					10					15	

Leu Phe Arg Tyr Leu His Ser His His Phe Leu Glu Leu Val Thr Leu  
                   20                  25                  30

Leu Leu Ser Ile Pro Val Thr Ser Ala His Pro Gly Val Leu Gln Ala  
                   35                  40                  45

Thr Lys Asp Val Leu Lys Phe Leu Ala Gln Ser Gln Lys Gly Leu Leu  
                   50                  55                  60

Phe Phe Met Ser Glu Tyr Glu Ala Thr Ile Tyr Xaa  
                   65                  70                  75

<210> 166

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals stop translation

<400> 166

Met Lys Gln Thr Arg Leu Asn Pro Pro Val Val Phe Ile Leu Leu Gln  
                   1                  5                  10                  15

Pro Leu Ser Arg Pro Arg Asp Gly Leu Ser Asn Ser Val Leu Ile Ile  
                   20                  25                  30

Leu His Ser Val Pro Xaa  
                   35

<210> 167

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids



<223> Xaa equals any of the naturally occurring L-amino acids

Met Ser Ala Leu Arg Arg Ser Gly Tyr Gly Pro Ser Asp Gly Pro Ser  
1 5 10 15

Tyr Gly Arg Tyr Tyr Gly Pro Gly Gly Gly Asp Val Pro Val His Pro  
20 25 30

Pro Pro Pro Leu Tyr Pro Leu Arg Pro Glu Pro Pro Gln Pro Pro Ile  
35 40 45

Ser Trp Arg Val Arg Gly Gly Gly Pro Ala Glu Thr Thr Trp Leu Gly  
50 55 60

Glu Gly Gly Gly Gly Asp Gly Tyr Tyr Pro Ser Gly Gly Ala Trp Pro  
65 70 75 80

Glu Pro Gly Arg Ala Gly Gly Ser His Gln Ser Leu Asn Ser Tyr Thr  
85 90 95

Asn Gly Ala Tyr Gly Pro Thr Tyr Pro Pro Gly Pro Gly Ala Asn Thr  
100 105 110

Ala Phe Ile Leu Arg Gly Leu Xaa Cys Thr Trp Leu Tyr Ser Asp Gln  
115 120 125

Leu Leu His Arg Ile Pro Ser Thr Tyr Arg Ser Ser Gly Asn Ser Pro  
130 135 140

Thr Pro Val Ser Arg Trp Ile Tyr Pro Gln Gln Asp Cys Gln Thr Glu  
145 150 155 160

Ala Xaa Pro Leu Arg Gly Lys Val Pro Gly Tyr Pro Pro Ser Xaa Xaa  
165 170 175

Pro Gly Met Xaa Leu Pro His Tyr Pro Tyr Gly Asp Gly Asn Arg Ser  
180 185 190

Val Pro Gln Ser Gly Pro Thr Val Arg Pro Gln Glu Asp Ala Trp Ala  
195 200 205

Ser Pro Gly Ala Tyr Gly Met Gly Gly Arg Tyr Pro Trp Pro Ser Ser  
210 215 220

Ala Pro Ser Ala Pro Pro Gly Asn Leu Tyr Met Thr Glu Val Leu His  
225 230 235 240

His Gly Leu Ala Val Ala Leu Pro Ser His Pro Leu His Pro Gln Ser  
245 250 255

Ser Ser Pro Arg Ile Leu His Thr Pro Ile Ala Asn Gln Ile Lys Ala  
260 265 270

[illegible]

<210> 168  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals stop translation

<400> 168  
 Met Ile Leu Thr Phe Cys Val Phe Leu Leu Phe Ser Phe His Asn Ala  
           1                  5                  10                  15

Ile Lys Ser Thr Pro Phe Leu Lys Phe Xaa  
                   20                  25

<210> 169  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals stop translation

<400> 169  
 Met Lys Leu Ile Tyr Tyr Cys His Leu Val Asp Ile Leu Leu Leu Gln  
           1                  5                  10                  15

Ala Ile Ile Lys Xaa Asn Ala Gly Met Xaa  
                   20                  25

<210> 170  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 170  
 Met Ile Glu Cys Pro Asp Trp Ala Arg Thr Ala Ser Leu Ala Lys Gln  
           1                  5                  10                  15

Arg Arg Lys Val Phe Lys Gln Met Leu Ser Ser Phe Leu His Phe His  
                   20                  25                  30

Phe Asn Ser Met Met Pro Leu Cys Pro Ser Asp Asp Ile Ser Pro Gly

45

Thr His Val Pro Ser Leu Tyr Thr Asn Gly Asn Ile Leu Lys Ile Leu

20                      25                      30  
 Phe Cys Thr Phe Thr Val Gln Val Pro Tyr Ser Pro Leu Ser Thr Trp  
           35                      40                      45  
 Gln Arg Pro Lys Pro Val Lys Gly Arg Val Ser Thr Trp Pro Pro Ser  
           50                      55                      60  
 Ser Met Ser Ser Ala Arg Ser Pro Gln Gly Pro  
           65                      70                      75

<210> 173  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals stop translation

<400> 173  
 Met Ala Leu Leu Val Leu Thr Leu Tyr Cys Ile Leu Phe Leu Lys Ile  
           1                      5                      10                      15  
 Tyr Met Pro Val Pro Ser His Cys Glu Gln Phe Lys Gly Arg Asn Xaa  
                           20                      25                      30

<210> 174  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals stop translation

<400> 174  
 Met Gln Asn Asp Gly Leu Lys Phe Met Glu Met Val Leu His Val Leu  
           1                      5                      10                      15  
 Gln Ala Ser Ile Gly Val Leu Leu Leu Met Val Asp Val Leu Glu His  
                           20                      25                      30  
 Phe Leu Ala Met Leu Ile Gly Asn Ala Gly Ala Pro Leu Pro Leu Leu  
           35                      40                      45  
 Asp Val Leu Gly Lys Asp Val Ile Asp Val Ala Glu Arg Arg Glu Ser  
           50                      55                      60  
 Lys Lys Xaa  
           65

<210> 175  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
 Met Gln Trp Gly Glu Gly Ala Gly Pro Ser Trp Val Tyr Ile Leu Ser  
   1                  5                  10                  15  
 Trp Asp Ser Arg Ala Ser Leu Cys Met Cys Ala Ala Ser Arg Tyr Leu  
           20                  25                  30  
 Cys Thr Gly Thr Asp Pro Pro Thr Arg Gly Asp Thr Ser Thr Pro His  
           35                  40                  45  
 Lys Ala Ile Leu Pro Leu Asp Pro Cys Pro Gln Ile Ser Arg Thr Ala  
   50                  55                  60  
 Arg Ala Glu Phe Leu Gln Pro Gly Gly Ser Thr Ser Ser Arg Ala Ala  
   65                  70                  75                  80  
 Ala Thr Ala Val Glu Leu Gln Leu Leu Phe Pro Leu Val Arg Val Asn  
                   85                  90                  95  
 Phe Glu Leu Gly Val Ile Met Val Ile Ala Val Ser Cys Val Lys Leu  
           100                  105                  110  
 Leu Ser Ala His Asn Ser Thr Gln His Thr Ser Arg Lys His Lys Val  
   115                  120                  125

<210> 176  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals stop translation

<400> 176  
 Met Gly Ser Val Trp Asn Cys Leu Leu Ala Leu Leu Glu Lys His Leu  
   1                  5                  10                  15  
 Ile Thr Leu Tyr Lys Leu Ile Ile Thr Val Leu Leu Asp Leu Leu Ser  
           20                  25                  30  
 Ala Arg His Lys Cys Phe Thr Ser Val Asn Ser Phe Asn Xaa  
           35                  40                  45

<210> 177

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<400> 178
Met Cys Gly Gly His Ala Ile Asn Val Gly Pro Phe Thr Val Ala Gly
 1             5             10             15

Arg Gly Arg Asn Leu Gln Phe Leu Arg Val Leu Leu Leu Arg Cys Pro
      20             25             30

Pro Val Leu Gly His Ser Cys Ser Xaa Pro Cys Pro Ala Trp Ser His
      35             40             45

Pro Pro Ser Ala Asn Arg Ser Leu Gly Arg Val Leu Trp Ala Leu Ile
      50             55             60

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Arg Pro Trp Gln Gly Arg Ser Ser Xaa  
65 70

<210> 179  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals stop translation

<400> 179  
Met Val Leu Pro Arg Ile Leu Val Leu Met Leu Phe Leu Ala Leu Lys  
1 5 10 15

Asn Pro Val Gly Glu Met Arg Asn Leu Thr His Cys Arg Cys Xaa  
20 25 30

<210> 180  
<211> 72  
<212> PRT  
<213> Homo sapiens

<400> 180  
Met Asp Thr Arg Gly Val Val Leu Arg Ser Gly Glu Phe Asn Arg Gln  
1 5 10 15

Glu Gly Arg Glu Lys Thr Glu Gly Arg Ser Ser Ser Ile Trp Arg Gln  
20 25 30

Arg Glu Gly Gly Ser Lys Ala Lys Arg Gly Gly Pro Gln Val Gln Trp  
35 40 45

Thr Pro Ala Lys Tyr Ile Cys Arg Gly Trp Lys Gly Arg Cys Leu Ile  
50 55 60

Tyr Ile Gly Leu Arg Gly Leu Val  
65 70

<210> 181  
<211> 55  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals stop translation

&lt;400&gt; 181

Met Pro His Ile Phe Val Ser Gly Asn Phe Ser Leu Leu Ala Leu Phe  
 1 5 10 15

Leu Leu Ser Ala Asn Phe Ile Val Glu Val Gln Ser Trp Leu Leu Leu  
 20 25 30

Leu Leu Phe Phe Ile Xaa Leu Gly Arg Ser Tyr Asn Phe Tyr Leu Leu  
 35 40 45

Cys Asp Ser Ile Ile Phe Xaa  
 50 55

&lt;210&gt; 182

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 182

Met His Asn Leu Ile Ser Ser Ile Ile Ser Phe Leu Tyr Asn Phe Cys  
 1 5 10 15

Ala Leu Pro Leu Ala Ser Pro Gln Phe Thr Asn Glu Glu Ser Ser Tyr  
 20 25 30

Thr Ala Leu Arg Ser Cys Thr Arg Gly Gly Phe Glu Ser Arg Ser Leu  
 35 40 45

Gly Thr Gln Lys Ser Cys Thr Phe Gln Gly Lys Gly Asp Tyr His Val  
 50 55 60

Thr Ala Xaa  
 65

&lt;210&gt; 183

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 183

Met Thr Thr Leu Phe Glu Thr Asp Arg Cys Leu Leu Phe Leu Val Met  
 1 5 10 15

Ser Arg Phe Gly Phe Lys Ser Arg Leu Glu Ala Thr Ser Cys Lys Gln  
 20 25 30



Val Gln Glu Asn Glu Thr Arg Arg Val Gly Asp Thr Arg Met Lys Thr  
 35 40 45

Ser Val Arg Val Lys Thr Lys Gln Thr Met Tyr Ile Ile Cys Ile Trp  
 50 55 60

Glu Lys Lys Glu Arg Asn Tyr Leu Thr Xaa  
 65 70

<210> 184

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 184

Met Val Ser Asp Ile Ser Gly Gln Lys Gln Ser Leu Glu Ala Val Lys  
 1 5 10 15

Glu His Leu Leu Phe Ile Trp Leu Pro Val Tyr Lys Ser Thr His Glu  
 20 25 30

Gly Pro Asn Ser Lys Ile Ser Asn Tyr Gln Val Leu Xaa  
 35 40 45

<210> 185

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals stop translation

<400> 185

Met Arg Pro Leu Leu Cys Ala Leu Thr Gly Leu Ala Leu Leu Arg Ala  
 1 5 10 15

Ala Gly Ser Leu Ala Ala Ala Glu Pro Phe Ser Pro Pro Arg Gly Asp  
 20 25 30

Ser Ala Gln Ser Thr Ala Cys Asp Arg His Met Ala Val Gln Arg Arg  
 35 40 45

Leu Asp Val Met Glu Glu Met Val Glu Lys Thr Val Asp His Leu Gly  
 50 55 60

Thr Glu Val Lys Gly Leu Leu Gly Leu Leu Glu Glu Leu Ala Trp Asn  
 65 70 75 80

Leu Pro Pro Gly Pro Phe Ser Pro Ala Pro Asp Leu Leu Gly Asp Gly  
                   85                  90                  95

Phe Xaa

<210> 186  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals stop translation

<400> 186  
 Met Ala Ser Leu Leu Asp Asn Phe Ile Leu Asn Ile Ile Val Ile Phe  
       1                  5                  10                  15  
 Cys Ile Val Ile Asp Ser Tyr Leu Cys Gly Phe Met Tyr Phe Phe Val  
                   20                  25                  30  
 Ile Asp Ser Pro Val Pro Ala Cys Ser Pro Leu Gln Leu Ser Gln Thr  
                   35                  40                  45  
 Leu Ile Leu Gln Leu Gln Pro Thr Ala Arg Tyr Phe His Xaa  
           50                  55                  60

<210> 187  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 187  
 Met Cys Ile Phe Glu Cys Met Cys His Phe Phe Ile Asp Ile Ser Asn  
       1                  5                  10                  15  
 His Tyr Tyr Val Val Arg Phe Tyr Pro Glu Asp Ser Leu Pro Lys Thr  
                   20                  25                  30  
 Phe Ile Tyr Asp Pro Phe Lys Ala  
           35                  40

<210> 188  
 <211> 153  
 <212> PRT  
 <213> Homo sapiens

<400> 188  
 Met Cys Glu Ser Asn Ser Thr Met Pro Gly Pro Ser Leu Glu Ser Pro  
       1                  5                  10                  15  
 Val Ser Thr Pro Ala Gly Lys Ile Gly Leu Ala Val Cys Tyr Asp Met  
           20                  25                  30

Arg Phe Pro Glu Leu Ser Leu Ala Leu Ala Gln Ala Gly Ala Glu Ile  
35 40 45

Leu Thr Tyr Pro Ser Ala Phe Gly Ser Ile Thr Gly Pro Ala His Trp  
50 55 60

Glu Val Leu Leu Arg Ala Arg Ala Ile Glu Thr Gln Cys Tyr Val Val  
65 70 75 80

Ala Ala Ala Gln Cys Gly Arg His His Glu Lys Arg Ala Ser Tyr Gly  
85 90 95

His Ser Met Val Val Asp Pro Trp Gly Thr Val Val Ala Arg Cys Ser  
100 105 110

Glu Gly Pro Gly Leu Cys Leu Ala Arg Ile Asp Leu Asn Tyr Leu Arg  
115 120 125

Gln Leu Arg Arg His Leu Pro Val Phe Gln His Arg Arg Pro Asp Leu  
130 135 140

Tyr Gly Asn Leu Gly His Pro Leu Ser  
145 150

<210> 189

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals stop translation

<400> 189

Met Asn Ile Leu Met Phe Ala Phe Met Ile Ile Phe Met Gly Ala Lys  
1 5 10 15

Phe Gln Glu Val Glu Phe Trp Val Arg Gly Tyr Asp His Leu Lys Ala  
20 25 30

Thr Leu Phe Asp Gln Ile Gly Arg Tyr Leu Lys Met Gly Gly Gln Glu  
35 40 45

Pro Leu Leu Ala Lys Val Trp Val Arg Gly Thr Xaa  
50 55 60

<210> 190

<211> 108

<212> PRT

<213> Homo sapiens

<400> 190

Met Ser Ser Val Ser Leu Ser Ala Ser Ser Ser Ser Ser Lys Val  
1 5 10 15

Pro Arg Val Arg Ile Lys Ser Glu Gly Cys Ser Thr Gly Asp Lys Leu  
                   20                  25                  30

Ser Leu Ala Val Pro Ala Ser Lys Ala Thr Glu Pro Ile Ser Phe Arg  
                   35                  40                  45

Arg Arg Ser Ser Cys Ser Leu Cys Cys Trp Leu Ser Ala Leu Ala Ser  
                   50                  55                  60

Asp Phe Phe Arg Arg Ser Tyr Ser Gly Arg Tyr Ser Leu Ser Tyr Ser  
                   65                  70                  75                  80

Ser Ala Ala Leu Val Thr Cys Thr Lys Ser Ser Ser Asn Pro Val Pro  
                   85                  90                  95

Arg Thr Ala Glu Thr Pro Thr Thr Leu Ser Glu Leu  
                   100                  105

<210> 191  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals stop translation

<400> 191  
 Met Ser Ile Thr Leu Ile Gln Leu Met Phe Tyr Phe Asn Thr Pro Glu  
           1                  5                  10                  15

Leu Pro His Lys Thr Ser Phe His Val Lys Gly Ser Arg Xaa  
                   20                  25                  30

<210> 192  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals stop translation

<400> 192  
 Met Ser Leu Leu Leu Phe Leu Lys Val His Leu Phe Ser Pro Ser Thr  
           1                  5                  10                  15

Ile Phe Lys Arg Asn Asn Xaa  
                   20

<210> 193  
 <211> 106

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals stop translation

<400> 193  
 Met Gly Pro Ala Leu Met Val Ala Ser Leu Cys Leu Gly Gly Pro Ala  
           1                  5                  10                  15  
 Pro Ala Val Gly Ala Ile Thr Pro Ser Pro Phe Ile Thr Ser Leu Arg  
                   20                  25                  30  
 Trp Ala Pro Ser Pro Ala Gly Cys Leu Pro Ser Gly Asn Ser Arg Thr  
           35                  40                  45  
 Leu Arg Asp Thr Arg Ala Ala Trp Pro Arg Gly Ala Thr Ala Arg Pro  
           50                  55                  60  
 Pro Gly Gly Gln Pro Trp Arg Glu Leu Arg Pro Thr Tyr Ser Gly Val  
           65                  70                  75                  80  
 Trp Glu Pro Cys Leu Tyr Leu Gly Xaa Ser Pro Ser Gln Leu Pro Pro  
                   85                  90                  95  
 Cys Val Phe Pro Pro Ala Lys Val Gly Xaa  
           100                  105

<210> 194  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals stop translation

<400> 194  
 Met Lys Val Gln Ser Phe Tyr Lys Thr Leu Ile Pro Leu Leu Thr Ile  
           1                  5                  10                  15  
 Phe Met Met Val Ala Leu Val Asn Phe Thr Gly Lys Lys Asn Ser Gln  
                   20                  25                  30  
 Asn Tyr Pro Ala Gly Asn Ile Ser Ser Leu Pro Lys Asp Lys Thr Val  
           35                  40                  45  
 Lys Thr Arg Leu Gly Xaa  
           50

<210> 195  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals stop translation

<400> 195  
 Met Arg Asp Pro Leu Asn Arg Val Leu Ala Asn Leu Phe Leu Leu Ile  
           1                  5                  10                  15  
 Ser Ser Ile Leu Gly Ser Arg Thr Ala Gly Pro His Thr Gln Phe Val  
                   20                  25                  30  
 Gln Trp Phe Met Glu Glu Cys Val Asp Cys Leu Glu Gln Gly Gly Arg  
           35                  40                  45  
 Gly Ser Val Leu Gln Phe Met Pro Phe Thr Thr Val Ser Glu Leu Val  
           50                  55                  60  
 Lys Val Ser Ala Met Ser Ser Pro Lys Val Val Leu Ala Ile Thr Asp  
           65                  70                  75                  80  
 Leu Ser Leu Pro Leu Gly Arg Gln Val Ala Ala Lys Ala Ile Ala Ala  
                   85                  90                  95  
 Leu Xaa

<210> 196  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals stop translation

<400> 196  
 Met Gln Gly Ser Pro Leu Val Thr Ala Ile Tyr Lys Ile Phe Leu Leu  
           1                  5                  10                  15  
 Ser Leu Leu Val Arg Gly Ile Cys Xaa  
                   20                  25

<210> 197  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

TOP SECRET

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals stop translation

<400> 197

Met Ala Phe Asn Gly Ile Ile His Ala Leu Ala Ser Pro Leu Leu Ala  
 1 5 10 15

Pro Pro Gln Pro Gln Ala Val Leu Ala Pro Glu Ala Pro Pro Val Ala  
 20 25 30

Ala Gly Val Gly Ala Val Leu Ala Ala Gly Ala Leu Leu Gly Leu Val  
 35 40 45

Ala Gly Ala Leu Tyr Leu Arg Ala Arg Gly Lys Pro Met Gly Phe Gly  
 50 55 60

Phe Ser Ala Phe Gln Ala Glu Asp Asp Ala Asp Asp Asp Phe Ser Pro  
 65 70 75 80

Trp Gln Glu Gly Thr Asn Pro Thr Leu Val Ser Val Pro Asn Pro Val  
 85 90 95

Phe Gly Ser Asp Thr Phe Cys Glu Pro Phe Asp Asp Ser Leu Leu Glu  
 100 105 110

Glu Asp Phe Pro Asp Thr Gln Arg Ile Leu Thr Val Lys Xaa  
 115 120 125

<210> 198

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals stop translation

<400> 198

Met Leu Val Glu Lys Ile Leu Leu Ile Glu Cys Leu Ser Ser Glu Ser  
 1 5 10 15

Gln Leu Ile Gly Phe Leu Leu Xaa  
 20

<210> 199

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals stop translation

&lt;400&gt; 199

Met Glu Ala Lys Phe Leu Gly Asn Ala Pro Cys Gly His Tyr Thr Phe  
 1 5 10 15

Lys Phe Pro Gln Ala Met Arg Thr Glu Ser Asn Leu Gly Ala Lys Val  
 20 25 30

Phe Phe Phe Lys Ala Leu Leu Leu Thr Gly Asp Phe Ser Gln Ala Gly  
 35 40 45

Asn Lys Gly His His Val Trp Val Thr Lys Asp Glu Leu Gly Asp Tyr  
 50 55 60

Leu Lys Pro Lys Tyr Leu Ala Gln Val Arg Arg Phe Val Ser Asp Leu  
 65 70 75 80

Xaa

&lt;210&gt; 200

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 200

Met Leu Thr Phe Leu Ile Phe Leu Phe Pro Glu Val Val Leu Gly Leu  
 1 5 10 15

Leu Arg Asp Tyr Ser Ser Xaa  
 20

&lt;210&gt; 201

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 201

Met His Val Tyr Leu Asn Tyr Lys Xaa  
 1 5

&lt;210&gt; 202

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals stop translation

<400> 202  
 Met Val Glu Ser Asn Leu Pro Gly Pro Ala Xaa  
           1                  5                  10

<210> 203  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 203  
 Thr Phe Lys Ser Leu Trp Lys His Trp Thr Leu Ala Gly Pro Gly Asn  
           1                  5                  10                  15

Ile Gly Lys Asn Trp Ile Gly Arg  
                           20

<210> 204  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 His Glu Gly Thr Trp Arg Trp Glu Ala Pro Thr Pro Leu Gln Ser Leu  
           1                  5                  10                  15

Gly Pro Thr Thr Pro Ser Leu Pro Ser Val Ala Asp Leu Cys Gln Asp  
                   20                  25                  30

Gly His Gly Gly Cys Ser Glu His Ala Asn Cys Ser Gln Val Gly Thr  
           35                  40                  45

<210> 205  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 205  
 Leu Lys Val Pro Thr Cys Tyr Ser Ala Asn Thr  
           1                  5                  10

<210> 206  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 206  
 Trp Gln Val Pro Ala Pro Val Ile Pro Gly Xaa Asp Pro Arg Val Arg  
     1                    5                    10                    15  
 Gly Ala Arg Lys Arg Thr Leu Leu Gly Val Ala Gly Gly Trp Arg Arg  
                     20                    25                    30  
 Phe Glu Arg Leu Trp Ala Gly Ser Leu Ser  
                     35                    40

<210> 207  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 207  
 Ser Arg Ser Leu Ala Leu Ala Ala Ala Pro Ser Ser Asn Gly Ser Pro  
     1                    5                    10                    15  
 Trp Arg Leu Leu Gly Ala Leu Cys Leu Gln Arg Pro Pro Val Val Ser  
                     20                    25                    30  
 Lys Pro Leu Thr Pro Leu Gln Glu Glu  
                     35                    40

<210> 208  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 208  
 Met Glu Glu Glu Ala Tyr Ser Lys Gly Phe Gln Glu Gly Leu Lys Lys  
     1                    5                    10                    15  
 Thr Lys Glu Leu Gln Asp Leu Lys Glu Glu Glu Glu Glu Gln Lys Ser  
                     20                    25                    30  
 Glu Ser Pro Glu Glu Pro Glu Glu Val  
                     35                    40

<210> 209  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 209  
 Glu Glu Thr Glu Glu Glu Glu Lys Gly Pro Arg Ser Ser Lys Leu Glu  
     1                    5                    10                    15  
 Glu Leu Val His Phe Leu Gln Val Met Tyr Pro Lys Leu Cys Gln His

20

25

30

Trp Gln Val Ile Trp  
35

<210> 210  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 210  
Ile Leu Tyr Leu Val Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser  
1 5 10 15  
Leu Gly Leu Thr Tyr Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro  
20 25 30

Val Tyr Leu Leu Ile Ala Ile Val Ile  
35 40

<210> 211  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 211  
Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr  
1 5 10 15  
Leu Val Trp Ala  
20

<210> 212  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 212  
Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp  
1 5 10

<210> 213  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 213  
Pro Leu Pro Glu Arg Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser  
1 5 10 15

Gln Phe Gly Phe  
20

<210> 214  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Pro Thr Arg Gly Gly Ser Leu Cys Ala Cys Pro Gly Trp Gly Leu Pro  
           1                  5                  10                  15  
 Ser Arg Leu Gly Leu Ser Leu Arg Phe Ser Ser Ser Pro Leu Arg Leu  
                   20                  25                  30  
 Pro Ser Arg Arg Leu Arg Glu Asn Ser Ala Leu Arg Leu Ser Lys Ala  
                   35                  40                  45  
 Pro Gly Lys  
           50

<210> 215  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 215  
 Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu  
           1                  5                  10

<210> 216  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 216  
 Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu  
           1                  5                  10

<210> 217  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 217  
 Gly Ala Ser Ser Arg Pro Arg Leu Glu Leu Gly Arg Leu Met Gly Pro  
           1                  5                  10                  15  
 Lys Gly Val Ala Val Asp Arg Asn Xaa His Ile Ile Val Val Asp Asn  
                   20                  25                  30  
 Lys Ser Cys Cys Val Phe Thr Phe Gln Pro Asn Gly  
           35                  40

<210> 218  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 218  
 Lys Leu Val Gly Arg Phe Gly Gly Arg Gly Ala Thr Asp Arg His Phe  
   1                  5                  10                  15  
 Ala Gly Pro His Phe Val Ala Val Asn Asn Lys Asn Glu Ile Val Val  
                   20                  25                  30  
 Thr Asp Phe His Asn His Ser Val Lys Val Tyr Ser  
           35                  40

<210> 219  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 219  
 Ala Asp Gly Glu Phe Leu Phe Lys Phe Gly Ser His Gly Glu Gly Asn  
   1                  5                  10                  15  
 Gly Gln Phe Asn Ala Pro Thr Gly Val Ala Val Asp Ser Asn Gly Asn  
                   20                  25                  30  
 Ile Ile Val Ala Asp Trp Gly Asn Ser Arg  
           35                  40

<210> 220  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 220  
 Ile Xaa Gly Ile Arg Xaa Leu Trp Leu Leu Pro Val Leu Tyr Gln His  
   1                  5                  10                  15  
 Ile Cys Arg Thr Thr Val Trp Ser Thr Gly Pro Gly Thr Asp Leu Gly  
                   20                  25                  30  
 Trp Pro Cys Gly Gly Gly  
           35

<210> 221  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 221  
 Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr Glu Leu Gly  
           1                  5                  10                  15

<210> 222  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 222  
 Arg Pro Thr Arg Pro Pro Asp Gly Cys His Pro Ser Cys Cys Arg Met  
           1                  5                  10                  15

Glu Ala Ala Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr  
                   20                  25                  30

Glu Leu Gly Ile  
                   35

<210> 223  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 223  
 Glu Cys Gln Glu Tyr Glu Ile Leu Glu His Cys Trp Trp Glu Cys Lys  
           1                  5                  10                  15

Leu Val Gln Pro Phe Trp Lys Ser Ser Cys Arg Ile Pro Ala Ala Arg  
                   20                  25                  30

Gly Ile His  
                   35

<210> 224  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 224  
 His Cys Trp Trp Glu Cys Lys Leu Val Gln Pro Phe Trp Lys Ser  
           1                  5                  10                  15

<210> 225

<211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 225  
 Phe Thr Phe Pro Pro Thr  
 1 5

<210> 226  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (117)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 226  
 His His His Leu Arg Val Gly Ser Pro Trp Ser His Pro Glu Thr Gly  
 1 5 10 15

Thr Ala Val His Gly Ala His Pro Gln Gly Glu Ala Ala Ser Asp Arg  
 20 25 30

His Arg Gly Cys Phe Tyr Arg Arg Arg Gln Leu Met His Gln Leu Pro  
 35 40 45

Ile Tyr Asp Gln Asp Pro Ser Arg Cys Arg Gly Leu Leu Glu Asn Glu  
 50 55 60

Leu Lys Leu Met Glu Glu Phe Val Lys Gln Tyr Lys Ser Glu Ala Leu  
 65 70 75 80

Gly Val Gly Glu Val Ala Leu Pro Gly Xaa Gly Trp Leu Ala Lys Glu  
 85 90 95

Glu Gly Lys Gln Gln Glu Lys Pro Glu Gly Ala Glu Thr Xaa Ala Xaa  
                   100                  105                  110

Thr Thr Asn Gly Xaa Xaa Ser Asp Pro Ser Lys Glu Glu Ala Cys  
           115                  120                  125

<210> 227  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 227  
 Thr Tyr Glu Trp Ala Pro Pro  
       1                  5

<210> 228  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 228  
 Pro Lys Glu Lys Gln Pro Val  
       1                  5

<210> 229  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 229  
 Pro Arg Pro Ala Asn Leu Ala Ile Gln Pro Pro Leu Ser Pro Leu Arg  
       1                  5                  10                  15

Ala Leu Ala Pro Leu Pro Glu Lys Pro Gly Ala Val Pro Pro Pro Gln  
                   20                  25                  30

Lys Arg

<210> 230  
 <211> 163  
 <212> PRT  
 <213> Homo sapiens

<400> 230  
 Ala His Ala Val Trp Arg Pro Gly Val Leu Pro Gly Leu Val Glu Leu  
       1                  5                  10                  15

Arg Val Cys His Leu Leu Leu Ala Glu Leu Glu His Pro Cys Ala Gln  
           20                  25                  30

Val Val His Gln Val Gly Gly Val Cys Val Cys Val Met Trp Asn Met  
       35                  40                  45



Ala Val Asn Leu Asn Arg Phe Pro Cys Pro Leu Leu Cys Arg His Phe  
50 55 60

Tyr Lys Pro Met Leu Arg Arg Gly Ser Ser Lys Trp Met Ala Arg Thr  
65 70 75 80

Gly Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu Val Ser Val  
85 90 95

Pro Leu Arg Met Phe Arg Leu Trp Ala Phe Thr Gly Met Met Ala Gln  
100 105 110

Ile Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly Asn Tyr Gly  
115 120 125

Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly Gln Pro Ile Ala Val  
130 135 140

Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr Glu Ala Pro Ala  
145 150 155 160

Ala Glu Ala

<210> 231

<211> 8

<212> PRT

<213> Homo sapiens

<400> 231

Tyr Phe Leu Phe Ala Pro Thr Leu  
1 5

<210> 232

<211> 16

<212> PRT

<213> Homo sapiens

<400> 232

Asn Leu Asn Arg Phe Pro Cys Pro Leu Leu Cys Arg His Phe Tyr Lys  
1 5 10 15

<210> 233

<211> 16

<212> PRT

<213> Homo sapiens

<400> 233

Gln Gly Asn Tyr Gly Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly  
1 5 10 15

<210> 234  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 234  
 Leu Tyr Tyr Phe Leu Phe Ala Pro Thr Leu Cys Tyr Glu Leu Asn Phe  
   1                  5                  10                  15

Pro

<210> 235  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 235  
 Glu Met Leu Phe Phe Thr Gln Leu Gln Val Gly Leu Ile Gln Gln Trp  
   1                  5                  10                  15

Met Val Pro Thr Ile Gln Asn Ser Met Lys  
                   20                  25

<210> 236  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 236  
 Val Thr Tyr Phe Trp Gln Asn Trp Asn Ile Pro Val His Lys Trp Cys  
   1                  5                  10                  15

Ile Arg

<210> 237  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 237  
 Pro Phe Lys Asp Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys  
   1                  5                  10                  15

Leu Ala Val Pro Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu  
                   20                  25                  30

Phe His Ser Cys Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp  
                   35                  40                  45

Arg Glu Phe Tyr Arg Asp Trp Trp Asn Ser Glu Ser

50

55

60

&lt;210&gt; 238

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 238

Arg His Phe Tyr Lys Pro Met Leu Arg Arg Gly Ser Ser Lys Trp Met  
 1 5 10 15

Ala Arg Thr Gly Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu  
 20 25 30

Val Ser Val Pro Leu Arg Met Phe Arg Leu Trp Ala Phe Thr Gly Met  
 35 40 45

&lt;210&gt; 239

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 239

Met Ala Gln Ile Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly  
 1 5 10 15

Asn Tyr Gly Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly Gln Pro  
 20 25 30

Ile Ala Val Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr  
 35 40 45

&lt;210&gt; 240

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 240

Ser Gly Xaa Trp Gln Gly Leu Asp Glu Val Val Arg Leu Leu Asn Xaa  
 1 5 10 15

Ser Asp Phe Ala Phe Thr Asp

20

<210> 241  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 241  
 Gly Ser Leu Ala Lys Arg Ser Asn Phe Arg Ala Ile Ser Lys Lys Leu  
           1                  5                  10                  15  
 Asn Leu Ile Pro Arg Val Asp Gly Glu Tyr Asp Leu Lys Val Pro Arg  
                   20                  25                  30  
 Asp Met Ala Tyr Val Phe Xaa Gly Ala Tyr Val Pro Leu Ser Cys Arg  
                   35                  40                  45  
 Ile Ile Glu Gln Val Leu Glu Arg Arg Xaa Ala Gly Pro  
           50                  55                  60

<210> 242  
 <211> 194  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids -

<400> 242  
 Glu Val Ile Asn Thr Leu Ala Asp His Arg His Arg Gly Thr Asp Phe  
           1                  5                  10                  15  
 Gly Gly Ser Pro Trp Leu Leu Ile Ile Thr Val Phe Leu Arg Ser Tyr  
                   20                  25                  30  
 Lys Phe Ala Ile Ser Leu Cys Thr Ser Tyr Leu Cys Val Ser Phe Leu  
           35                  40                  45  
 Lys Thr Ile Phe Pro Ser Gln Asn Gly His Asp Gly Ser Thr Asp Val  
           50                  55                  60  
 Gln Gln Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys  
           65                  70                  75                  80

Ile Val Leu Glu Asp Ile Phe Thr Leu Trp Arg Gln Val Glu Thr Lys  
85 90 95

Val Arg Ala Lys Ile Arg Lys Met Lys Val Thr Thr Lys Val Asn Arg  
100 105 110

His Asp Lys Ile Asn Gly Lys Arg Lys Thr Ala Lys Glu His Leu Arg  
115 120 125

Lys Leu Ser Met Lys Glu Arg Glu His Gly Glu Lys Glu Arg Gln Val  
130 135 140

Ser Glu Ala Glu Glu Asn Gly Lys Leu Asp Met Lys Glu Ile His Thr  
145 150 155 160

Tyr Met Glu Met Phe Gln Arg Ala Gln Val Cys Gly Gly Gly Gln Arg  
165 170 175

Thr Thr Thr Asp Ala Lys Ser Pro Leu Leu Gln Glu Ser Leu Phe Ala  
180 185 190

Thr Gly

<210> 243  
<211> 143  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 243  
Ile Cys Val Lys Thr Phe Pro Pro Leu Ala Leu Gln Val Arg Met Ala  
1 5 10 15

Ala Xaa Glu His Arg His Ser Ser Gly Leu Pro Xaa Trp Pro Tyr Leu  
20 25 30

Thr Ala Glu Thr Leu Lys Asn Arg Met Gly His Gln Pro Pro Pro Pro

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

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<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

Leu Glu Asp Ile  
20

—

<400> 245  
Leu Ser Leu Lys Thr Pro Ala Glu Cys Leu Leu Tyr Pro Leu Pro Pro  
1 5 10 15

```
<210> 246
<211> 27
<212> PRT
<213> Homo sapiens
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1

Phe Leu Leu Ile Glu Ser Tyr Gln Lys Leu Arg Asn Lys Thr Asn Leu  
 1 5 10 15

Ser Leu His Val Phe Leu Phe His Thr Glu Val  
 20 25

<210> 247

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 247

Tyr Ala Leu Arg Thr Gly Ala Phe Glu Pro Ala Glu Ala Ser Val Asn  
 1 5 10 15

Pro Gln Asp Leu Gln Gly Ser Leu Gln Glu Leu Lys Glu Arg Ala Leu  
 20 25 30

Ser Arg Tyr Asn Leu Val Arg Gly Gln Gly Pro Glu Arg Leu Val Ser  
 35 40 45

Gly Ser Asp Asp Phe Thr Leu Phe Leu Trp Ser Pro Ala Glu Xaa Lys  
 50 55 60

Lys Pro Leu Thr Arg Met Thr Gly His Gln Ala Leu Ile Asn Gln Val  
 65 70 75 80

Leu Phe Ser Pro Asp Ser Arg Ile Val Ala Ser Ala Ser Phe Asp Lys  
 85 90 95

Ser Ile Lys Leu Trp Asp Gly Arg Thr Gly Lys Tyr Leu Ala Ser Leu  
 100 105 110

Arg Gly His Val Ala Ala Val Tyr Gln Ile Ala Trp Ser Ala Asp Ser  
 115 120 125

Arg Leu Leu Val Ser Gly Ser Ser Xaa Gln His Thr Glu Gly Val Gly  
 130 135 140

Cys Glu Gly Pro Glu Ala Gly His Gly Pro Ala Arg Pro Arg Gly  
 145 150 155

<210> 248

<211> 21

<212> PRT

<213> Homo sapiens

&lt;400&gt; 248

Leu Lys Glu Arg Ala Leu Ser Arg Tyr Asn Leu Val Arg Gly Gln Gly  
 1 5 10 15

Pro Glu Arg Leu Val  
 20

&lt;210&gt; 249

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 249

Met Pro Thr Pro Ser Met Arg Ala Asn Arg Met Pro Pro Ile Ile Ala  
 1 5 10 15

Glu Pro Thr Met Ala Ser Gly Pro Leu Arg Ala Ala Ser Thr Ala Pro  
 20 25 30

Val Asn Ala Pro Leu Val Ile Glu Phe Gln Gly Ser Ser Leu Pro Arg  
 35 40 45

Ser Arg Thr Arg Pro Gln Ser Met Val Glu Asn Arg Pro Pro His Thr  
 50 55 60

Ala Lys Leu Pro Pro Ile Trp Gly Ala Arg Ile Leu Thr Ala Leu Ala  
 65 70 75 80

Leu Pro Leu Asn Arg Cys Arg Ile Pro Thr Gly Ala Leu Arg Lys Pro  
 85 90 95

Leu Met Ala Trp Lys Thr Pro Pro Pro Met Thr Pro Ile Val Lys Ala  
 100 105 110

Pro Pro Gln Ser Ser Thr Ile Arg His Gly Gln Gly Ser Arg Ala Tyr  
 115 120 125

Ser Gly Arg Val Gly Gly Arg Val Gly  
 130 135

&lt;210&gt; 250

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 250

Gly Ala Arg Ile Leu Thr Ala Leu Ala Leu Pro Leu Asn Arg Cys Arg  
 1 5 10 15

Ile Pro Thr Gly Ala Leu Arg Lys Pro  
 20 25

&lt;210&gt; 251

&lt;211&gt; 38



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

Pro Thr Arg Pro Pro Thr Arg Pro Glu Tyr Ala Arg Glu Pro Cys Pro  
 1 5 10 15

Trp Arg Ile Val Asp Asp Cys Gly Gly Ala Phe Thr Met Gly Val Ile  
 20 25 30

Gly Gly Gly Val Phe Gln  
 35

&lt;210&gt; 252

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 252

Ala Ile Lys Gly Phe Arg Asn Ala Pro Val Gly Ile Arg His Arg Leu  
 1 5 10 15

Arg Gly Ser Ala Asn Ala Val Arg Ile Arg Ala Pro Gln Ile Gly Gly  
 20 25 30

Ser Phe Ala Val Trp Gly Gly  
 35

&lt;210&gt; 253

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

Leu Phe Ser Thr Ile Asp Cys Gly Leu Val Arg Leu Arg Gly Lys Glu  
 1 5 10 15

Asp Pro Trp Asn Ser Ile Thr Ser Gly Ala Leu Thr Gly Ala Val Leu  
 20 25 30

Ala Ala Arg Ser Gly Pro Leu Ala  
 35 40

&lt;210&gt; 254

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

Ile Arg His Glu Arg Lys Ser Ala Arg Ala Cys Cys Pro Leu Thr Gly  
 1 5 10 15

Ala Gln Arg Arg Gly Gln Ala Leu Pro Thr Pro Arg Ala Gly Pro Gly  
 20 25 30

His Ser Pro Ala Pro Val  
35

<210> 255  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 255  
Ala Pro Ser Ala Pro Gln Glu Asp Gly Gly Ser Pro Pro Ala Pro Gln  
1 5 10 15

Gly Gln Pro Asp Pro Gly Pro Gly Ala Gly Gln Pro Ala Gln Leu Gly  
20 25 30

Pro Leu Leu Ala Phe Leu  
35

<210> 256  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 256  
Pro Leu Leu His Gln Asp Cys Lys Glu Ser Pro His Leu Gly Ser Ser  
1 5 10 15

Gly Ser Pro Val Gln Ala Leu Asp Leu Ser Ser Ile Gln Thr Arg Thr  
20 25 30

Ala Val Ser Cys Val Asp Gly Val Arg Leu Trp Ala  
35 40

<210> 257  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 257  
His Arg Leu Gln Val Phe Ser Phe Pro Ile Leu Gly Ser His Asn  
1 5 10 15

<210> 258  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 258  
Gly Lys Val Glu Ile Glu Val Phe Ile Phe Pro Tyr Glu Tyr Pro Val  
1 5 10 15

Val Pro Thr Pro Leu Ile Lys Asn Thr Ile Leu Tyr Pro Leu Ser Leu  
20 25 30

Phe Cys Thr Phe Ile Lys Asn Gln Phe Ser Ile Tyr Leu Trp Ile Lys  
 35 40 45

Phe Phe Ile Phe  
 50

<210> 259  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 259  
 Arg Ala Thr Thr His Val Ser Arg Glu Phe Phe Gly His Thr  
 1 5 10

<210> 260  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 260  
 Thr Leu Phe Ser Met Phe Ser Gly Pro Leu Gly Arg Gln Thr Gln Leu  
 1 5 10 15

Asp Phe Arg Ala Asp Ile Gly Glu Glu Asn Met Ala Leu Ser Val Leu  
 20 25 30

Ser Pro Asp Lys Cys Tyr Leu Tyr Thr  
 35 40

<210> 261  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 261  
 His Pro Asn Leu Lys Arg Lys Cys Ile Ser Leu Gly Phe Lys His Cys  
 1 5 10 15

Asn Arg Tyr Lys Ala Lys Ile Lys Thr Cys Cys Lys Val Gln Lys Lys  
 20 25 30

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Arg  
 35 40 45

<210> 262  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 262  
 His Ser Gly Val Gln Thr Ile Ala Phe Gly Leu Glu Cys  
 1 5 10

<210> 263  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 263  
 Lys Val Gln Asp Arg Asp Gly Lys Glu Arg Arg Lys Gln Glu Glu Val  
           1                  5                  10                  15  
 Lys Leu Gly Arg Trp Cys Gln Trp His  
                   20                  25

<210> 264  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 264  
 Ala Cys Gly Ala Pro Glu Glu Ala Gly Gly  
           1                  5                  10

<210> 265  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 265  
 Leu Phe Ser Ser Phe Leu Gly Asp Thr Thr Val His Lys Val Leu Ser  
           1                  5                  10                  15  
 Arg Ala Thr Leu His Leu His Pro Ala Pro Tyr Leu Thr Gly Val Asp  
                   20                  25                  30  
 Ser Tyr Ser  
           35

<210> 266  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 266  
 Asp Phe Ser Ser Tyr Ser His Pro Ser Leu Gly Thr Gln Leu Ser Ile  
           1                  5                  10                  15  
 Arg Cys Tyr Pro Glu Pro His Cys Ile Cys Thr Gln His His Thr Ser  
                   20                  25                  30  
 Gln Glu Ser Thr Pro Thr Leu  
           35

<210> 267  
 <211> 38

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 267  
 Ala Pro Gln Lys Phe Pro Xaa Gly Phe Phe Phe Phe Phe Leu Phe Ser  
           1                  5                  10                  15  
 Arg Arg Lys Lys Gln Cys Ser Lys Val Val Gln Asn Thr Gly Ala Gly  
                   20                  25                  30  
 Ala Ile Gln Thr Gln Val  
                   35

<210> 268  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 268  
 Gln Leu Leu Thr Ser Pro Thr Phe Ser Thr Val Leu Ser Asn Tyr Thr  
           1                  5                  10                  15  
 Cys Gln Ala Pro Ser Gln Trp Thr Asp Trp Gln Ala Leu Leu Pro Thr  
                   20                  25                  30  
 Gly Ile Gln Thr Glu His  
                   35

<210> 269  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 269  
 His Gln Gly Trp Asp Lys Gln Lys Gln Cys Lys Arg Lys Cys Glu His  
           1                  5                  10                  15  
 Glu His Ala Pro Leu His His Asn Leu Trp Lys Gln Ser Gly Lys Thr  
                   20                  25                  30  
 Arg Leu Gly Asp  
                   35

<210> 270  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 270  
 Lys His Val Ile Phe Phe Met Phe Ile Ser Asn Leu Phe Leu Ile Leu

1                      5                      10                      15  
 Cys Phe Leu Phe Arg Pro Thr Lys Thr Thr Val  
                     20                      25

<210> 271  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 271  
 Asp Lys Leu Leu Ser Phe His Leu Val Ser Ile  
       1                      5                      10

<210> 272  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 272  
 Lys Trp Lys Gly Asp Leu His Cys Ile Leu Gly Leu Leu Ala  
       1                      5                      10

<210> 273  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 273  
 Leu Ala Pro Ser Ser Val Gly Ser Ala Ser  
       1                      5                      10

<210> 274  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 274  
 Arg Glu Ala Thr Lys Asn Pro Thr His His Arg Ser Thr Pro His Ala  
       1                      5                      10                      15

Ala Gly Ser Gln Leu Asn Val Pro Pro Gln Pro Cys Phe Pro Leu His  
                     20                      25                      30

His Gln Ile Lys Thr Ser Pro  
                     35

<210> 275  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 275

Ser Gln Thr Ile Phe Lys Gln Ser Arg His Arg Cys Asp Ser Arg Gln  
1 5 10 15

Glu Ser Thr Trp Leu Cys Ser His Glu Lys Asp Ala Thr Lys Met Met  
20 25 30

His Leu Asn Asp Asn Ser  
35

<210> 276

<211> 48

<212> PRT

<213> Homo sapiens

<400> 276

Val Thr Gly Ser Pro Ile Leu Gln Leu Ala Leu Leu Gln Leu Pro Ala  
1 5 10 15

Trp Pro Leu Arg Gly Arg Leu Arg Gly Lys Arg His Cys Thr Gly Leu  
20 25 30

Asn Leu Ala Ile Ser Gly Asn Gly Gly Glu Trp Gly Gly Arg Gly Glu  
35 40 45

<210> 277

<211> 13

<212> PRT

<213> Homo sapiens

<400> 277

Ile Arg His Glu Asp Glu Val Lys Leu Leu Glu Trp Ser  
1 5 10

<210> 278

<211> 35

<212> PRT

<213> Homo sapiens

<400> 278

Ser Leu His Ser Ser Ala Val Ala Ala Thr Tyr Lys Tyr Val Asn Met  
1 5 10 15

Gln Asp Pro Glu Met Asp Met Lys Ser Val Thr Asp Arg Ala Ala Arg  
20 25 30

Thr Leu Leu  
35

<210> 279

<211> 60

<212> PRT

<213> Homo sapiens

<400> 279

Trp Thr Glu Leu Phe Arg Gly Leu Gly Met Thr Leu Ser Tyr Leu Phe  
1 5 10 15

Arg Glu Pro Ala Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser  
20 25 30

Pro Arg Phe Arg Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu  
35 40 45

Glu Arg Cys Ile Ala Cys Lys Leu Cys Glu Ala Ile  
50 55 60

<210> 280

<211> 57

<212> PRT

<213> Homo sapiens

<400> 280

Cys Pro Ala Gln Ala Ile Ile Glu Ala Glu Pro Arg Ala Asp Gly Ser  
1 5 10 15

Arg Arg Thr Thr Arg Tyr Asp Ile Asp Met Thr Lys Cys Ile Tyr Cys  
20 25 30

Gly Phe Cys Gln Glu Ala Cys Pro Val Asp Ala Ile Val Glu Gly Pro  
35 40 45

Asn Phe Glu Phe Ser Thr Glu Thr His  
50 55

<210> 281

<211> 19

<212> PRT

<213> Homo sapiens

<400> 281

Gly Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp Tyr  
1 5 10 15

Leu Tyr Arg

<210> 282

<211> 48

<212> PRT

<213> Homo sapiens

<400> 282

Ser Ala Ala Asp Pro Ala Thr Gln Pro Gly Asp Ser Arg Ala Leu Pro  
1 5 10 15

Glu Pro Arg Gly Val Pro Ala Val His Pro Ala Gly Ser Gly Ser Glu



20

25

30

Trp Glu Arg Pro Pro Pro Ala Ala Pro Ser Pro Glu His Arg Asp Lys  
 35 40 45

&lt;210&gt; 283

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 283

Asp Ser Arg Ala Leu Pro Glu Pro Arg Gly Val Pro Ala Val His Pro  
 1 5 10 15

Ala Gly Ser Gly Ser Glu Trp Glu  
 20

&lt;210&gt; 284

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

Glu Phe Gly Thr Ser Trp Val  
 1 5

&lt;210&gt; 285

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 285

Thr Leu His Pro Pro Gln Glu Pro Gln Arg Pro Glu Ala Pro Asp Ala  
 1 5 10 15

Gly Asp Pro Ala Pro Leu Pro Ser Thr Ser Ser Val Gly Ser Ser Ser  
 20 25 30

Gly Gly Ala Cys Gly Val Pro Cys Ala His Trp Arg Val Cys Gly Leu  
 35 40 45

Ile His Leu Val Ala Leu Arg Gly Gly Ile Arg Ala Pro Val Ser Pro  
 50 55 60

Pro Phe Met Phe Asn Leu His His Asn Leu Leu Asn Leu Arg  
 65 70 75

&lt;210&gt; 286

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

Glu Pro Gln Arg Pro Glu Ala Pro Asp Ala Gly Asp Pro Ala Pro Leu  
 1 5 10 15

Pro Ser Thr Ser Ser  
 20

&lt;210&gt; 287

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 287

Arg Val Cys Gly Leu Ile His Leu Val Ala Leu Arg Gly Gly Ile  
 1 5 10 15

&lt;210&gt; 288

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 288

Gln Gly Tyr Ser Thr Lys Pro Arg Leu Met Val Pro Leu Lys Met Asp  
 1 5 10 15

Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val Tyr  
 20 25 30

Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly  
 35 40 45

Val Gly Thr Ser Ser Ser Glu Ser Thr His Pro Glu Gly Pro Glu Glu  
 50 55 60

Glu Glu Asn Pro Gln Gln Ser Glu Glu Leu Leu Glu Val Ser Asn  
 65 70 75

&lt;210&gt; 289

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 289

Asp Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val  
 1 5 10 15

Tyr Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg  
 20 25 30

&lt;210&gt; 290

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 290

Leu Met Val Pro Leu Lys Met Asp Ser Ile Thr Val His Ile Arg Ser  
 1 5 10 15

Thr Asn Gly Pro Ile Asp Val Tyr Leu  
 20 25

&lt;210&gt; 291

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly Val Gly Thr Ser Ser  
 1 5 10 15

Ser Glu Ser Thr His Pro Glu Gly Pro Glu  
 20 25

&lt;210&gt; 292

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 292

Arg Pro Thr Arg Pro Ser Ile Leu Gly Leu Tyr Val Asp Leu Tyr Val  
 1 5 10 15

Phe Cys Ile

&lt;210&gt; 293

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 293

Cys Gly Ala Cys Thr Xaa Leu Ser Leu Ser Asp Ser Arg Arg Cys Gly  
 1 5 10 15

Cys Cys Lys Gly Ser Ser Leu Arg His Thr Ala Val Ala  
 20 25

&lt;210&gt; 294

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 294

Gly Arg Pro Thr Arg Pro Ile  
1 5

&lt;210&gt; 295

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

Asp Pro Arg Val Arg Asp Leu Gln Gln Lys Asp Ile Gly Val Lys Pro  
1 5 10 15Glu Phe Ser Phe Asn Ile Pro Arg Ala Lys Arg Glu Leu Ala Gln Leu  
20 25 30Asn Lys Cys Thr Ser Pro Gln Gln Lys Leu Val Cys Leu Arg Lys Val  
35 40 45Val Gln Leu Ile Thr Gln Ser Pro Ser Gln Arg Val Asn Leu Glu Thr  
50 55 60

&lt;210&gt; 296

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 296

Gln Gln Lys Asp Ile Gly Val Lys Pro Glu Phe Ser Phe Asn Ile Pro  
1 5 10 15Arg Ala Lys Arg Glu  
20

&lt;210&gt; 297

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 297

Lys Cys Thr Ser Pro Gln Gln Lys Leu Val Cys Leu Arg Lys Val Val  
1 5 10 15Gln Leu Ile Thr Gln Ser Pro Ser Gln  
20 25

&lt;210&gt; 298

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 298

Gln	Lys	Glu	Trp	Lys	Leu	Phe	Leu	Arg	Gly	Arg	Gln	Asn	Glu	Lys	Ser
1				5					10					15	

Gly	Tyr	Gln	Lys	Leu	Leu	Glu	Leu	Ile	Leu	Leu	Asp	Gln	Thr	Val	Arg
			20					25					30		

Val	Val	Thr	Ala	Gly	Ser	Ala	Ile	Leu	Gln	Lys	Cys	His	Phe	Tyr	Glu
			35				40					45			

Val	Leu	Ser	Glu	Ile	Lys	Arg	Leu	Gly	Asp	His	Leu	Ala	Glu	Lys	Thr
	50					55					60				

Ser	Xaa	Leu	Pro	Asn	His	Ser	Glu	Pro	Asp	His	Asp	Thr	Asp	Ala	Gly
65					70					75					80

Leu	Glu	Arg	Thr	Asn	Pro	Glu	Tyr	Glu	Asn	Glu	Val	Glu	Ala	Ser	Met
				85					90					95	

Asp	Met	Asp	Leu	Glu	Ser	Ser	Asn	Ile	Ser	Glu	Gly	Glu	Ile	Glu	
			100				105					110			

Arg	Leu	Ile	Asn	Leu	Leu	Glu	Glu	Val	Phe	His	Leu	Met	Glu	Thr	Ala
	115						120					125			

Pro	His	Thr	Met	Ile	Gln	Gln	Pro	Val	Lys	Ser	Phe	Pro	Thr		
	130					135					140				

&lt;210&gt; 299

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 299

Leu	Arg	Gly	Arg	Gln	Asn	Glu	Lys	Ser	Gly	Tyr	Gln	Lys	Leu	Leu	Glu
1					5				10					15	

Leu	Ile	Leu	Leu	Asp	Gln	Thr	Val	Arg	Val	Val					
				20				25							

&lt;210&gt; 300

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 300

Ile	Leu	Gln	Lys	Cys	His	Phe	Tyr	Glu	Val	Leu	Ser	Glu	Ile	Lys	Arg
1					5				10					15	

Leu	Gly	Asp	His	Leu	Ala	Glu	Lys	Thr	Ser						
			20					25							

<210> 301  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 301  
 Asp Ala Gly Leu Glu Arg Thr Asn Pro Glu Tyr Glu Asn Glu Val Glu  
           1                  5                  10                  15  
 Ala Ser Met Asp Met Asp  
                   20

<210> 302  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 302  
 Asn Ile Ser Glu Gly Glu Ile Glu Arg Leu Ile Asn Leu Leu Glu Glu  
           1                  5                  10                  15  
 Val Phe His Leu Met Glu Thr Ala Pro His  
                   20                  25

<210> 303  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 303  
 Arg Arg Thr Ser Gly Ser Pro Xaa Ala Ala Gly Ile Arg His Glu Gly  
           1                  5                  10                  15  
 Gly Phe Ile

<210> 304  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<400> 304  
 Met Asn Arg His Asn Phe Pro Cys Ser Val His Gln Tyr Glu Ser Ser  
           1                  5                  10                  15  
 Gly Thr Val Asn Asn Asp Asp Ser Asp Leu Leu Asp Ser Gln Val Gln  
                   20                  25                  30

Tyr Ser Ala Glu Pro Gln Leu Tyr Gly Asn Ala Thr Ser Asp His Pro  
35 40 45

Asn Asn Gln Asp Gln Ser Ser Ser Leu Pro Glu Glu Cys Val Pro Ser  
50 55 60

Asp Glu Ser Thr Pro Pro Ser Ile Lys Lys Ile Ile His Val Leu Glu  
65 70 75 80

Lys Val Gln Tyr Leu Glu Gln Glu Val Glu Glu Phe Val Gly Lys Lys  
85 90 95

Thr Asp Lys Ala Tyr Trp Leu Leu Glu Glu Met Leu Thr Lys Glu Leu  
100 105 110

Leu Glu Leu Asp Ser Val Glu Thr Gly Gly Gln Asp Ser Val Arg Gln  
115 120 125

Ala Arg Lys Glu Ala Val Cys Lys Ile Gln Ala Ile Leu Glu Lys Lys  
130 135 140

Lys Lys Lys Asn Ser  
145

<210> 305

<211> 87

<212> PRT

<213> Homo sapiens

<400> 305

Gly Ala Arg Ala Thr Ala Pro Val Thr Val Arg Pro Thr Ala Ala Thr  
1 5 10 15

Thr Gly Leu Gly Val Glu Met Cys Arg Tyr Thr His Leu His Pro Tyr  
20 25 30

Ile Leu Phe Ala Leu Asn Leu Pro Ser Leu Pro Phe Pro Gly Gly Cys  
35 40 45

Ala Gly Ala Ala Arg Arg Arg Pro Pro Gly Trp Glu Lys Ala Glu Glu  
50 55 60

Ala Met Ala Thr Ile Pro Arg Glu Ala Pro Gly Gln Ser Leu Val Glu  
65 70 75 80

Pro Glu Glu Ala Thr Arg Val  
85

<210> 306

<211> 25

<212> PRT

<213> Homo sapiens

<400> 306

Pro Val Thr Val Arg Pro Thr Ala Ala Thr Thr Gly Leu Gly Val Glu  
1 5 10 15

Met Cys Arg Tyr Thr His Leu His Pro  
20 25

<210> 307  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 307  
Pro Tyr Ile Leu Phe Ala Leu Asn Leu Pro Ser Leu Pro Phe Pro Gly  
1 5 10 15

Gly Cys Ala Gly Ala Ala Arg Arg Arg  
20 25

<210> 308  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 308  
Lys Ala Glu Glu Ala Met Ala Thr Ile Pro Arg Glu Ala Pro Gly Gln  
1 5 10 15

Ser Leu Val Glu  
20

<210> 309  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 309  
Met Asn Arg His Asn Phe Pro Cys Ser Val His Gln Tyr Glu Ser Ser  
1 5 10 15

Gly Thr Val Asn Asn Asp Asp Ser Asp Leu  
20 25

<210> 310  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 310  
Asp Ser Gln Val Gln Tyr Ser Ala Glu Pro Gln Leu Tyr Gly Asn Ala  
1 5 10 15

Thr Ser Asp His Pro Asn Asn Gln  
20

<210> 311



<211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 His Pro Asn Asn Gln Asp Gln Ser Ser Ser Leu Pro Glu Glu Cys Val  
           1                  5                  10                  15  
 Pro Ser Asp Glu Ser Thr Pro Pro Ser  
                   20                  25

<210> 312  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 312  
 Glu Val Glu Glu Phe Val Gly Lys Lys Thr Asp Lys Ala Tyr Trp Leu  
           1                  5                  10                  15  
 Leu Glu Glu Met Leu Thr Lys Glu  
                   20

<210> 313  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Leu Glu Leu Asp Ser Val Glu Thr Gly Gly Gln Asp Ser Val Arg Gln  
           1                  5                  10                  15  
 Ala Arg Lys Glu Ala Val Cys Lys  
                   20

<210> 314  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 314  
 Ile Arg His Glu Tyr Pro Val Leu Ile Gln Phe Ser Val Ser Tyr Arg  
           1                  5                  10                  15  
 Lys Ser Phe Ile Phe Cys Leu Pro Glu  
                   20                  25

<210> 315  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 315

Ala	Asp	Val	Glu	Leu	Val	Asp	Pro	Xaa	Gly	Cys	Arg	Asn	Ser	Ala	Arg
1				5					10					15	

Ala	Pro	Ala	Arg	Lys	Lys	Glu	Trp	His	Ser	Trp	Ala	Trp	Pro	Arg	Ile
			20					25						30	

Arg	Val	Ile	Arg	Ala	Arg	Glu	Ser	Leu	Gly	Ser
		35						40		

&lt;210&gt; 316

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 316

Glu	Phe	Gly	Thr	Ser	Arg	Gly	Pro	Val	Pro	Leu	Ser	Ser	Thr	Ser	Pro
1				5					10					15	

Met	Pro	Ser	Arg	Leu	Val	Ile	Arg	Ala	His	Ser	Leu	Leu	Phe	Ala
			20					25					30	

&lt;210&gt; 317

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 317

Phe	Arg	Ala	Trp	Arg	Asn	His	Gly	His	Ser	Cys	Phe	Leu	Cys	Glu	Ile
1				5					10					15	

Val	Ile	Arg	Ser	Gln	Phe	His	Thr	Thr	Tyr	Glu	Pro	Glu	Ala
			20					25					30

&lt;210&gt; 318

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 318

Ala	Asp	Asn	Asn	Phe	Thr	Gln	Glu	Thr	Ala	Met	Thr	Met	Ile	Thr	Pro
1				5					10					15	

Ser	Ser	Lys	Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr
			20					25						30	

Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn
			35					40				45			

Ser	Ala	Arg	Ala	Val	Leu	Leu	Ile	Trp	Gly	His	Gly	Ser	Ser	Gly	Lys
								50			55			60	

Met Ala Leu Cys Gly Val Glu Val Ser Pro Arg Val Gly Gly Ser Val  
65 70 75 80

Pro Val His Arg Tyr Leu Leu Ala Ala His Ile His Ser Glu Ala Leu  
85 90 95

Leu Ser Gln Leu Arg Met  
100

<210> 319  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 319  
Thr Ala Met Thr Met Ile Thr Pro Ser Ser Lys Leu Thr Leu Thr Lys  
1 5 10 15

Gly Asn Lys Ser Trp Ser Ser Thr  
20

<210> 320  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 320  
Ser Ser Gly Lys Met Ala Leu Cys Gly Val Glu Val Ser Pro Arg Val  
1 5 10 15

Gly Gly Ser Val Pro Val His Arg Tyr Leu  
20 25

<210> 321  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 321  
Val Asp Pro Val Lys Gly Gly  
1 5

<210> 322  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 322  
Ile Arg His Glu Arg His Glu Leu Val Pro Asn Ser Ala Arg Asp Phe  
1 5 10 15

<210> 323  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 323  
 Ala Thr Ser His Cys Gly  
   1                  5

<210> 324  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 324  
 Ala His Gly Gln Ile Glu Gly Lys Ala Leu Thr His Asp His Thr Ala  
   1                  5                  10                  15  
 Glu Lys Trp Gln Arg Gln Asp Leu Asn Leu Glu Pro Leu Ala Pro His  
                   20                  25                  30  
 Thr Ser Asn Leu Asn His Ser Pro Tyr Asn Thr Thr Tyr Val Val Lys  
                   35                  40                  45

<210> 325  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 325  
 Leu Asn Ser Ser Asp Cys Gln Leu Ala  
   1                  5

<210> 326  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 326  
 Thr Pro His Asn Leu Ser Ala Arg Arg Leu Ser Gly Thr Met Tyr Gly  
   1                  5                  10                  15  
 Phe Phe Ala Leu Gln Leu Thr Val Leu Leu Val His Tyr Phe Phe Leu  
                   20                  25                  30  
 Ile

<210> 327  
 <211> 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 327

Asn Ser Ala Arg Ala Lys Met Arg Leu Ser Thr Asn Leu Cys Ile Ile  
 1 5 10 15

Leu Ile Asn Ile Leu Ile Gln Asn Val Leu Asn Phe Asn Arg Lys Ile  
 20 25 30

Ile Phe Lys Phe Leu Pro Cys Ala  
 35 40

&lt;210&gt; 328

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 328

Asn Xaa Trp Ile Pro Arg Ala Ala Gly Ile Arg His Xaa Ala Ala Leu  
 1 5 10 15

Gly Gln Ala Gly Thr  
 20

&lt;210&gt; 329

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 329

Leu Leu Phe His Met Lys Leu Arg Lys Glu Val Glu Arg Thr Gly Leu  
 1 5 10 15

Val Leu Trp Ala Leu Leu Ala Gly Ala Pro Pro Pro Thr Ala Gly Leu  
 20 25 30

Gln Leu Gln Gly Ser Glu Ala Ile Ser Glu Lys Val Gly Ser Gly Ala  
 35 40 45

Glu Gly Ser Arg Gly Gln Val Pro Gly Gln Leu Leu Gln Gln Ala Gln  
 50 55 60

Gln Ala Phe His Leu Cys Pro Gln Val Ile His Gly Leu Leu Tyr His  
 65 70 75 80

Leu Leu His Asp Ile  
85

<210> 330  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 330  
Arg Lys Glu Val Glu Arg Thr Gly Leu Val Leu Trp Ala Leu Leu Ala  
1 5 10 15

Gly Ala Pro Pro Pro Thr Ala Gly Leu  
20 25

<210> 331  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 331  
Gly Ser Arg Gly Gln Val Pro Gly Gln Leu Leu Gln Gln Ala Gln Gln  
1 5 10 15

Ala Phe His Leu Cys Pro Gln  
20

<210> 332  
<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 332  
Gly Ser Arg Arg His Val Val Gly Lys Pro Gly Thr Pro Cys Arg Tyr  
1 5 10 15

Arg Ala Gly Ile Pro Xaa Val Asp Pro Arg Val Arg Ser Ile Thr Val  
20 25 30

Ile Val Lys Met Trp Phe Leu Arg Val Val Ala Thr Tyr Gly Gly Val  
35 40 45

Glu Arg  
50

<210> 333  
<211> 18  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 333

Ile Phe Ser Cys Asp Ser Ile Ala Ile Ile Gln Ile Lys His Leu Ala  
 1 5 10 15

Phe Pro

&lt;210&gt; 334

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 334

Gly Leu Trp Leu Ser Leu Gly Gly Phe His Glu Arg Gly Gln Asp Trp  
 1 5 10 15

Glu Gln Thr Gln Lys Ile Tyr Asn Cys His Val Leu Leu Asn Arg Lys  
 20 25 30

Gly Gln

&lt;210&gt; 335

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 335

Ala Trp Pro Arg Leu Gly Ala Asp Ser Glu Asn Leu Gln Leu Ser Arg  
 1 5 10 15

Ala Ala Glu Gln Lys Gly Ala Val Val Ala Thr Tyr Arg Lys Thr His  
 20 25 30

Leu Cys Asp Val Glu Ile Pro Gly Gln Gly Leu Cys Val Lys Ala Thr  
 35 40 45

Leu Pro Cys Leu Gly Pro Val Leu Ser His Leu Ser Ala His Gln Gln  
 50 55 60

Ala Arg Leu Val  
 65

&lt;210&gt; 336

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 336

Arg Ala Ala Glu Gln Lys Gly Ala Val Val Ala Thr Tyr Arg Lys Thr  
 1 5 10 15

His Leu Cys Asp Val Glu Ile Pro Gly Gln Gly  
 20 25

<210> 337  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Arg Arg Asp Ser Arg Ala Gly Ala  
           1                          5

<210> 338  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Leu Ser Ala Gly Asn His Asp Thr  
           1                          5

<210> 339  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 339  
 Lys Gln Val Lys Cys Ala Lys Val Ser Tyr Leu Leu Phe Leu Phe Gln  
           1                          5                          10                          15  
 Tyr Cys Ala Ile Asp Ser Cys Ile Lys Phe Trp Asn Ala Gly Ser Ser  
                           20                          25                          30  
 Trp Leu Ser Ser Val Thr Leu Trp Ser  
                           35                          40

<210> 340  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 340  
 Ile Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val  
           1                          5                          10

<210> 341  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 341  
 Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr Lys Leu  
           1                          5                          10



<210> 342  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 342  
 Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val Glu Trp Met  
           1                  5                  10                  15

Gln Asp Phe

<210> 343  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 343  
 Ala Phe Gln Asp Ala Leu Asn Gln Glu Thr Thr Tyr Val  
           1                  5                  10

<210> 344  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 344  
 Asn Leu Thr Arg Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser  
           1                  5                  10                  15

Leu Arg Val Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu  
                   20                  25                  30

Leu Phe Val Gln Val Thr Ser Ala Ala  
           35                  40

<210> 345  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 345  
 Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser  
           1                  5                  10

<210> 346  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 346  
 Lys Asp Met Gly Ser Val Ala Leu Asp Ala Gly Thr Ala Lys Asp Ser  
           1                  5                  10                  15

Leu Ser Pro Val Leu His Pro Ser Asp Leu Ile Leu Thr  
                   20                                  25

<210> 347  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 347  
 Ala Gly Ser Gly Lys Thr Thr Phe Val Gln Arg Leu Thr Gly His Leu  
       1                                  5                                  10                                  15

His Ala Gln Gly Thr Pro Pro Tyr Val Ile Asn Leu  
                                   20                                  25

<210> 348  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (119)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 348  
 Ser Thr Trp Ile Gln Gln Tyr Met Lys Phe Pro Phe Leu Pro Ile Leu  
       1                                  5                                  10                                  15

Val Met Lys Phe Ile Glu Lys Ala Gln Asn Met Ser Lys Tyr Val Leu  
                                   20                                  25                                  30

Ile Asp Thr Pro Gly Gln Ile Glu Val Phe Thr Trp Ser Ala Ser Gly  
                                   35                                  40                                  45

Thr Ile Ile Thr Glu Ala Leu Ala Ser Ser Phe Pro Thr Val Xaa Ile  
                                   50                                  55                                  60

Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val Thr Phe Met Cys  
       65                                  70                                  75                                  80

Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr Lys Leu Ala Phe  
                                   85                                  90                                  95

Ile Xaa Gly Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val  
                                   100                                  105                                  110

Glu Trp Met Gln Asp Phe Xaa Ala Phe Gln Asp Ala Leu Asn Gln Glu  
 115 120 125

Thr Thr Tyr Val Ile Thr  
 130

<210> 349

<211> 197

<212> PRT

<213> Homo sapiens

<400> 349

Gly Phe Pro Arg Cys Leu Glu Ser Arg Asp Tyr Ile Arg His Asn Leu  
 1 5 10 15

Thr Arg Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser Leu Arg  
 20 25 30

Val Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu Leu Phe  
 35 40 45

Val Gln Val Thr Ser Ala Ala Glu Glu Tyr Glu Arg Glu Tyr Arg Pro  
 50 55 60

Glu Tyr Glu Arg Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser Gln Gln  
 65 70 75 80

Gln Arg Glu Gln Leu Glu Arg Leu Arg Lys Asp Met Gly Ser Val Ala  
 85 90 95

Leu Asp Ala Gly Thr Ala Lys Asp Ser Leu Ser Pro Val Leu His Pro  
 100 105 110

Ser Asp Leu Ile Leu Thr Arg Gly Thr Leu Asp Glu Glu Asp Glu Glu  
 115 120 125

Ala Asp Ser Asp Thr Asp Asp Ile Asp His Arg Val Thr Glu Glu Ser  
 130 135 140

His Glu Glu Pro Ala Phe Gln Asn Phe Met Gln Glu Ser Met Ala Gln  
 145 150 155 160

Tyr Trp Lys Arg Asn Asn Lys His Arg Val Thr Glu Glu Ser His Glu  
 165 170 175

Glu Pro Ala Phe Gln Asn Phe Met Gln Glu Ser Met Ala Gln Tyr Trp  
 180 185 190

Lys Arg Asn Asn Lys  
 195

<210> 350

<211> 10

<212> PRT

<213> Homo sapiens

&lt;400&gt; 350

Leu Ala Pro Ser Ser Val Gly Ser Ala Ser  
 1 5 10

&lt;210&gt; 351

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 351

Arg Glu Ala Thr Lys Asn Pro Thr His His Arg Ser Thr Pro His Ala  
 1 5 10 15

Ala Gly Ser Gln Leu Asn Val Pro Pro Gln Pro Cys Phe Pro Leu His  
 20 25 30

His Gln Ile Lys Thr Ser Pro  
 35

&lt;210&gt; 352

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 352

Ser Gln Thr Ile Phe Lys Gln Ser Arg His Arg Cys Asp Ser Arg Gln  
 1 5 10 15

Glu Ser Thr Trp Leu Cys Ser His Glu Lys Asp Ala Thr Lys Met Met  
 20 25 30

His Leu Asn Asp Asn Ser  
 35

&lt;210&gt; 353

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 353

Val Thr Gly Ser Pro Ile Leu Gln Leu Ala Leu Leu Gln Leu Pro Ala  
 1 5 10 15

Trp Pro Leu Arg Gly Arg Leu Arg Gly Lys Arg His Cys Thr Gly Leu  
 20 25 30

Asn Leu Ala Ile Ser Gly Asn Gly Gly Glu Trp Gly Gly Arg Gly Glu  
 35 40 45

&lt;210&gt; 354

<211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 354  
 Glu Phe Gly Thr Arg Ser Leu Asp Pro Ser Gly Arg His Arg Val Gly  
     1                    5                    10                    15

Ala Ala Gly

<210> 355  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 355  
 Ala Gln Gly Arg Cys Ser Arg Asp Gly Ala Ser Ala His Gly Gly Leu  
     1                    5                    10                    15

Ser Val Pro Arg Trp Thr Cys Pro Ser Ser Gly Ser His Asn Pro Leu  
                     20                    25                    30

Pro Leu His Tyr Phe Thr Gln Val Gly Thr Phe Pro  
             35                    40

<210> 356  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 356  
 Cys Arg Val Ser Ala Leu Arg Glu Leu Lys Asp Ser Gln Arg His Gln  
     1                    5                    10                    15

Gly Ser Leu Ala Gln Arg Ser Asn Ser Gln Ala Pro Arg Arg Thr Ala  
             20                    25                    30

Met Glu Arg Thr Glu Thr His Leu Gln Trp Gly Leu  
             35                    40

<210> 357  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 357  
 Gly Thr Leu Pro Val Pro Gly Val Gln Ser Leu Pro Thr Pro Ser Leu  
     1                    5                    10                    15

Cys Leu Pro Pro Ser Lys Gly Gly Val Thr Thr Ser Val Ala Lys His  
             20                    25                    30

Leu Leu Pro Gly Ser Leu His Pro Gly His Leu Ser Leu  
             35                    40                    45

&lt;210&gt; 358

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 358

Trp Ser Val Cys Leu Ser Val Pro Pro Ser Leu Asn Leu Leu Pro Pro  
 1 5 10 15

Cys Pro Leu Leu Leu Ala Pro Gly Ser Pro Xaa Pro Leu Leu Ala Ala  
 20 25 30

Pro Ser His Leu Thr Gln Gly Ser Leu Arg Thr Leu Lys Trp Trp Ile  
 35 40 45

His Pro Glu  
 50

&lt;210&gt; 359

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 359

Ser Pro Gly Leu Xaa Gly Ile Arg His Glu Gln Pro Ser Lys Leu Met  
 1 5 10 15

Arg Leu Leu Ser Ser Asn Glu Asp Asp Ala Asn Ile Leu Ser Ser Pro  
 20 25 30

Thr Asp Arg Ser Met Ser Ser Ser Leu Ser Ala Ser Gln Leu His Thr  
 35 40 45

Val Asn  
 50

&lt;210&gt; 360

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 360

Gln Pro Ser Lys Leu Met Arg Leu Leu Ser Ser Asn Glu Asp Asp Ala  
 1 5 10 15

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<210> 365
<211> 13
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 365

Lys Arg Ile Leu Asn Lys Pro Val Gly Leu Lys Asp Leu  
 1 5 10

&lt;210&gt; 366

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 366

Gly Pro Gln Ile Ala Tyr Val Arg Asp Phe Lys Ala Lys Val Gln Tyr  
 1 5 10 15

Phe Arg Phe Trp  
 20

&lt;210&gt; 367

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 367

Tyr Phe Val Asn His Asn Thr Arg Ile Thr Gln Trp Glu Asp Pro Arg  
 1 5 10 15

Ser Gln Gly Gln Leu  
 20

&lt;210&gt; 368

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 368

Ile Gly Arg Phe Ile Ala Met Ala Leu Phe His Gly Lys Phe Ile Asp  
 1 5 10 15

Thr Gly Phe Ser Leu Pro Phe  
 20

&lt;210&gt; 369

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 369

Lys Gln Ile Met Trp Phe Trp Gln Phe Val Lys Glu Ile Asp Asn Glu  
 1 5 10 15

Lys Arg



<400> 370  
Phe Asn Arg Leu Asp Leu Pro Pro Tyr Lys Ser Tyr Glu Gln Leu Lys  
1 5 10 15

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<210> 371
<211> 474
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (137)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (146)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (235)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (428)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 371  
Thr His Ala Ser Ala Thr Arg Pro Gly Pro Leu Pro Pro Gly Trp Glu  
1 5 10 15

Lys Arg Thr Asp Ser Asn Gly Arg Val Tyr Phe Val Asn His Asn Thr

20 25 30  
 Arg Ile Thr Gln Trp Glu Asp Pro Arg Ser Gln Gly Gln Leu Asn Glu  
 35 40 45  
 Lys Pro Leu Pro Glu Gly Trp Glu Met Arg Phe Thr Val Asp Gly Ile  
 50 55 60  
 Pro Tyr Phe Val Asp His Asn Arg Arg Thr Thr Thr Tyr Ile Asp Pro  
 65 70 75 80  
 Arg Thr Gly Lys Ser Ala Leu Asp Asn Gly Pro Gln Ile Ala Tyr Val  
 85 90 95  
 Arg Asp Phe Lys Ala Lys Val Gln Tyr Phe Arg Phe Trp Cys Gln Gln  
 100 105 110  
 Leu Ala Met Pro Gln His Ile Lys Ile Thr Val Thr Arg Lys Thr Leu  
 115 120 125  
 Phe Glu Xaa Ser Phe Gln Gln Xaa Xaa Ser Phe Ser Pro Gln Asp Leu  
 130 135 140  
 Arg Xaa Arg Leu Trp Val Ile Phe Pro Gly Glu Glu Gly Leu Asp Tyr  
 145 150 155 160  
 Gly Gly Val Ala Arg Glu Trp Phe Phe Leu Leu Ser His Glu Val Leu  
 165 170 175  
 Asn Pro Met Tyr Cys Leu Phe Glu Tyr Ala Gly Lys Asp Asn Tyr Cys  
 180 185 190  
 Leu Gln Ile Asn Pro Xaa Ser Tyr Ile Asn Pro Asp His Leu Lys Tyr  
 195 200 205  
 Phe Arg Phe Ile Gly Arg Phe Ile Ala Met Ala Leu Phe His Gly Lys  
 210 215 220  
 Phe Ile Asp Thr Gly Phe Ser Leu Pro Phe Xaa Lys Arg Ile Leu Asn  
 225 230 235 240  
 Lys Pro Val Gly Leu Lys Asp Leu Glu Ser Ile Asp Pro Glu Phe Tyr  
 245 250 255  
 Asn Ser Leu Ile Trp Val Lys Glu Asn Asn Ile Glu Glu Cys Asp Leu  
 260 265 270  
 Glu Met Tyr Phe Ser Val Asp Lys Glu Ile Leu Gly Glu Ile Lys Ser  
 275 280 285  
 His Asp Leu Lys Pro Asn Gly Gly Asn Ile Leu Val Thr Glu Glu Asn  
 290 295 300  
 Lys Glu Glu Tyr Ile Arg Met Val Ala Glu Trp Arg Leu Ser Arg Gly  
 305 310 315 320  
 Val Glu Glu Gln Thr Gln Ala Phe Phe Glu Gly Phe Asn Glu Ile Leu  
 325 330 335

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 340 345 350  
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 355 360 365  
 Ile Tyr Arg His Tyr Ala Arg Thr Ser Lys Gln Ile Met Trp Phe Trp  
 370 375 380  
 Gln Phe Val Lys Glu Ile Asp Asn Glu Lys Arg Met Arg Leu Leu Gln  
 385 390 395 400  
 Phe Val Thr Gly Thr Cys Arg Leu Pro Val Gly Gly Phe Ala Asp Leu  
 405 410 415  
 Met Gly Ser Asn Gly Pro Gln Lys Phe Cys Ile Xaa Lys Val Gly Lys  
 420 425 430  
 Glu Asn Trp Leu Pro Arg Ser His Thr Cys Phe Asn Arg Leu Asp Leu  
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